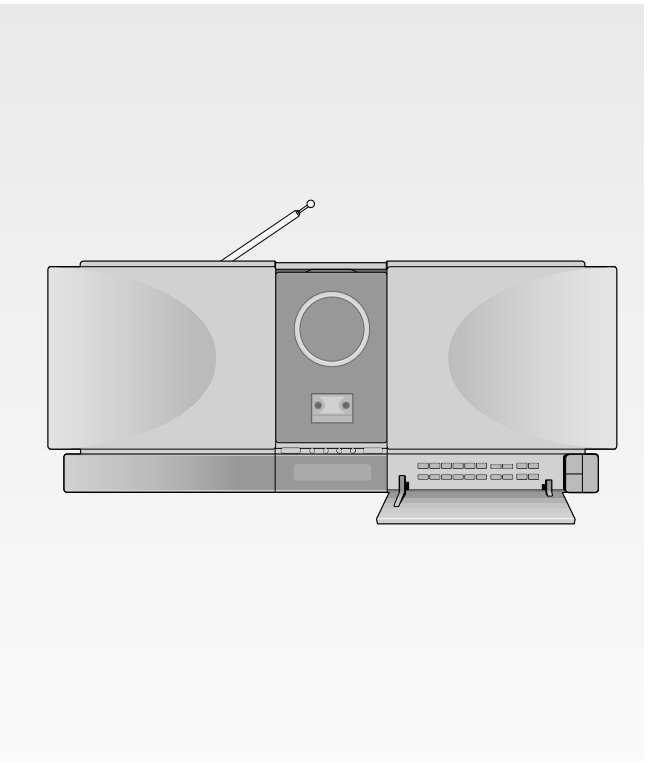
SAMSUNG

INTERIOR COMPONENT SYSTEM

S1000

SERVICE Manual

INTERIOR COMPONENT SYSTEM



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Code no. AH68-20149A

1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced.

2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children--might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

4. Design Alteration Warning:
   Never alter or add to the mechanical or electrical design of the unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

5. Leakage Current Hot Check (Figure 1-1):
   Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

   With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, etc.) and all exposed metal parts. Examples: Handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat.

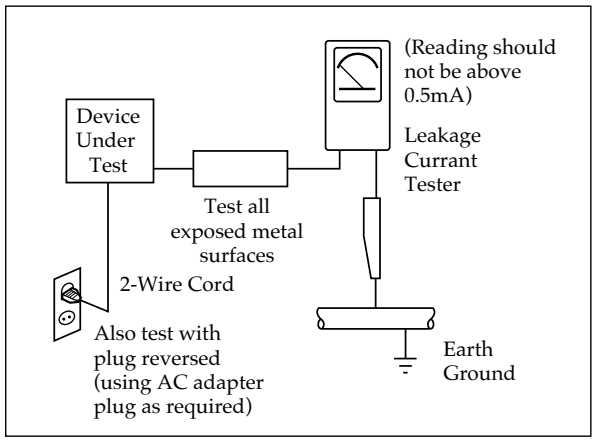

(Reading should not be above 0.5mA)
Device Under Test
Leakage Currant Tester
Test all exposed metal surfaces
2-Wire Cord
Also test with plug reversed (using AC adapter plug as required)
Earth Ground

Fig. 1-1 AC Leakage Test

6. Insulation Resistance Cold Check:
   (1) With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. (2) Set the power switch to ON. (3) Measure the resistance between the shorted AC plug and any exposed metallic parts. Example: Screwheads, antenna, control shafts or handle brackets.

   If any of the exposed metallic parts has a return path to the chassis, the measured resistance should be between 1 and 5.2 megohms. If there is no return path, the measured resistance should be "infinite." If the resistance is outside these limits, a shock hazard might exist. See Figure 1-2

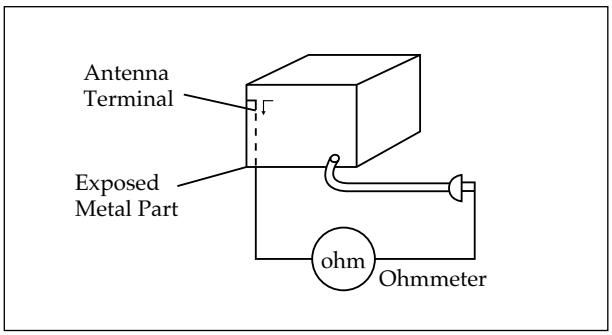


Fig. 1-2 Insulation Resistance Test

1-1 Safety Precautions (Continued)

7. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards

8. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that no wires or components touch thermally hot parts.

9. Product Safety Notice:
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

10 Components that are critical for safety are indicated in the circuit diagram by shading, ⚠ or ⚠ . Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Servicing Precautions

Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

1. Servicing precautions are printed on the cabinet. Follow them.

2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.

3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring may be clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.

4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.

5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).

6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.

7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

8. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs). Examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.

4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.

5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.

6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static" (these can accumulate sufficient electrical charge to damage ESDs).

7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.

8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

9. Minimize body motions when handing unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4 Special Precautions and Warning Labels for Laser Products

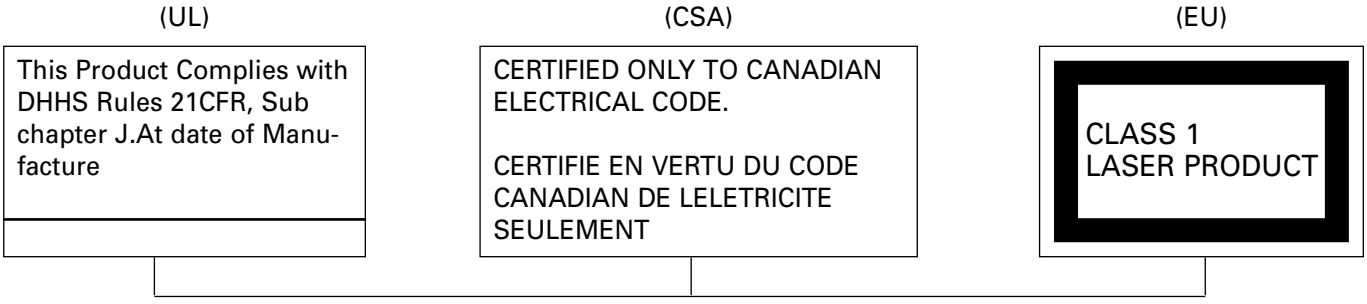

(UL)
This Product Complies with DHHS Rules 21CFR, Sub chapter J.At date of Manu-facture
(CSA)
CERTIFIED ONLY TO CANADIAN ELECTRICAL CODE.
CERTIFIE EN VERTU DU CODE CANADIAN DE LELETRICITE SEULEMENT
(EU)
CLASS 1
LASER PRODUCT

Fig. 1-3 Warning Labels (Location: Enclosure Block)

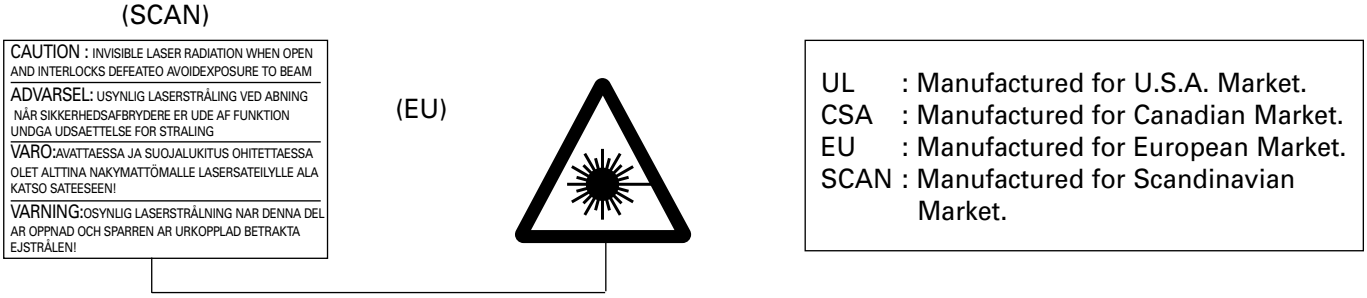

(SCAN)
CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATEO AVOIDEXPOSURE TO BEAM
ADVARSEL: USYNLIG LASERSTRÅLING VED ABNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGA UDSAETTELSE FOR STRALING
VARO:AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTINA NAKYMATTÖMALLE LASERSATEILYLLE ALA KATSO SATEESEEN!
VARNING:OSYNLIG LASERSTRÅLNING NAR DENNA DEL AR OPPNAD OCH SPARREN AR URKOPPLAD BETRAKTA EJSTRÅLEN!
(EU)
UL : Manufactured for U.S.A. Market.
CSA : Manufactured for Canadian Market.
EU : Manufactured for European Market.
SCAN : Manufactured for Scandinavian Market.

Fig. 1-4 Warning Labels (Location: Disc Clamper, Inner Side of Unit Door or Nearby Unit Chassis)

1-4 Special Precautions and Warning Labels for Laser Products (Continued)

1-4-1 Warnings

1. When servicing, do not approach the LASER exit with the eye too closely. In case it is necessary to confirm LASER beam emission, be sure to observe from a distance of more than 30 cm from the surface of the objective lens on the optical pick-up block.

2. Do not attempt to handle the objective lens when the DISC is not on the tray.

1-4-2 Laser Diode Specifications

Material: GaAs+ GaAlAs
Wavelength: 760-800 nm
Emission Duration: Continuous

Laser Output: 0.2 mw (measured at a 1.6 mm distance from the objective lens surface on the optical pick-up block.)

1-4-3 Handling the Optical Pick-up

1. Static electricity from clothing or the body may cause electrostatic breakdown of the laser diode in the Optical Pickup. Follow this procedure:

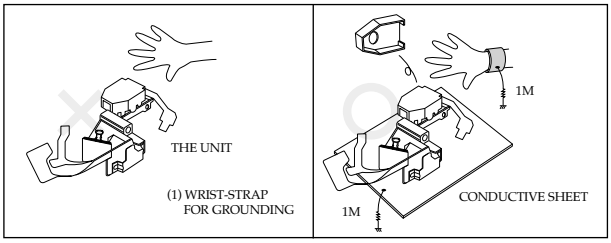
2. Place a conductive sheet on the work bench (i.e., the black sheet used for wrapping repair parts.) Note: The surface of the work bench should be covered by a copper ground plane, which is grounded.

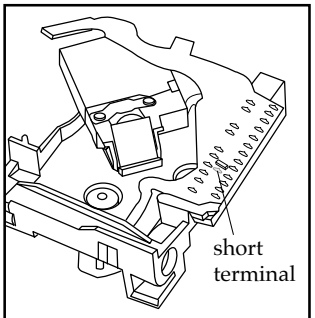
3. The repair technician must wear a wrist strap which is grounded to the copper sheet.

4. To remove the Optical Pickup block: Place the set on the conductive sheet, and momentarily touch the conductive sheet with both hands. (While working, do not allow any electrostatic sources--such as clothes--to touch the unit.)

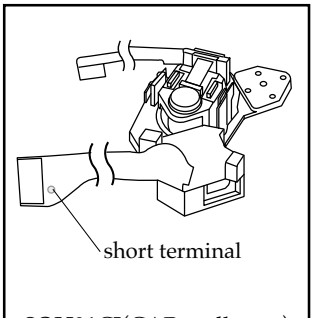
5. Ground the "Short Terminal" (located on the PCB, inside the Pickup Assembly) before replacing the Pickup. This terminal should be shorted whenever the Pickup Assembly is lifted or moved.

6. After replacing the Pickup, reopen the Short Terminal. See diagrams below:

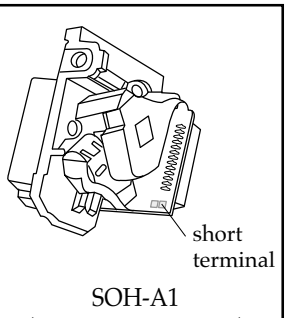




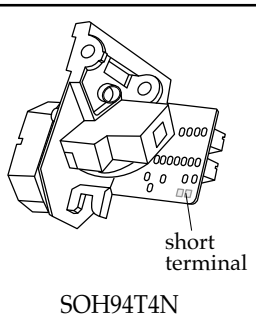
SOH91VI(LDP)



SOH91CI(CAR,walkman)



SOH-A1
(CMS-V10,CMS-V30)



SOH94T4N
(CMS-V10,CMS-V30)

2. Product Specfications

General		Power source Power consumption Dimensions (mm)	230V 160W 825(W) x 330(H) x 118(D)
Amp		Power output Total harmonic distortion Frequency range Signal to noise ratio Channel separation Input sensitivity	30W / Ch(6Ω),THD1% 0.08% 20Hz ~ 20kHz 80 dB 50 dB (1kHz) 250mV
Tuner	FM	Frequency range Usable sensitivity Signal to noise ratio IF rejection ratio Total harmonic distoration Separation (Stereo)	87.5 ~ 108MHz 1μV 64 dB 70 dB 0.45% 35 dB
	AM	Frequency range Usable sensitivity Signal to noise ratio IF rejection ratio Total harmonic distortion	522 ~ 1611KHz 600μV 40 dB 30 dB 2%
Cassette		Frequency range WOW FLUTTER Erasing effect Signal to noise ratio Total harmonic distortion	125Hz ~ 12.5KHz 0.15% 60 dB 40 dB 2.5%
Compact Disc		Frequency response Signal to noise ratio Channel separation Total harmonic distortion	20Hz ~ 20KHz(±1dB) 95 dB(1kHz 0dB) 90 dB(1kHz 0dB) 0.004%(1kHz 0dB)

Specifications are subject to change without notice.

3. Disassembly and Reassembly

3-1 Frame-Jersey

1. Remove 4 screws ① holding the Frame-Jersey, and disassemble the Frame-Jersey (Arrow 'A').
2. Remove 2 screws ②.
3. Remove 2 screws ③ and disassemble the Base-Set.

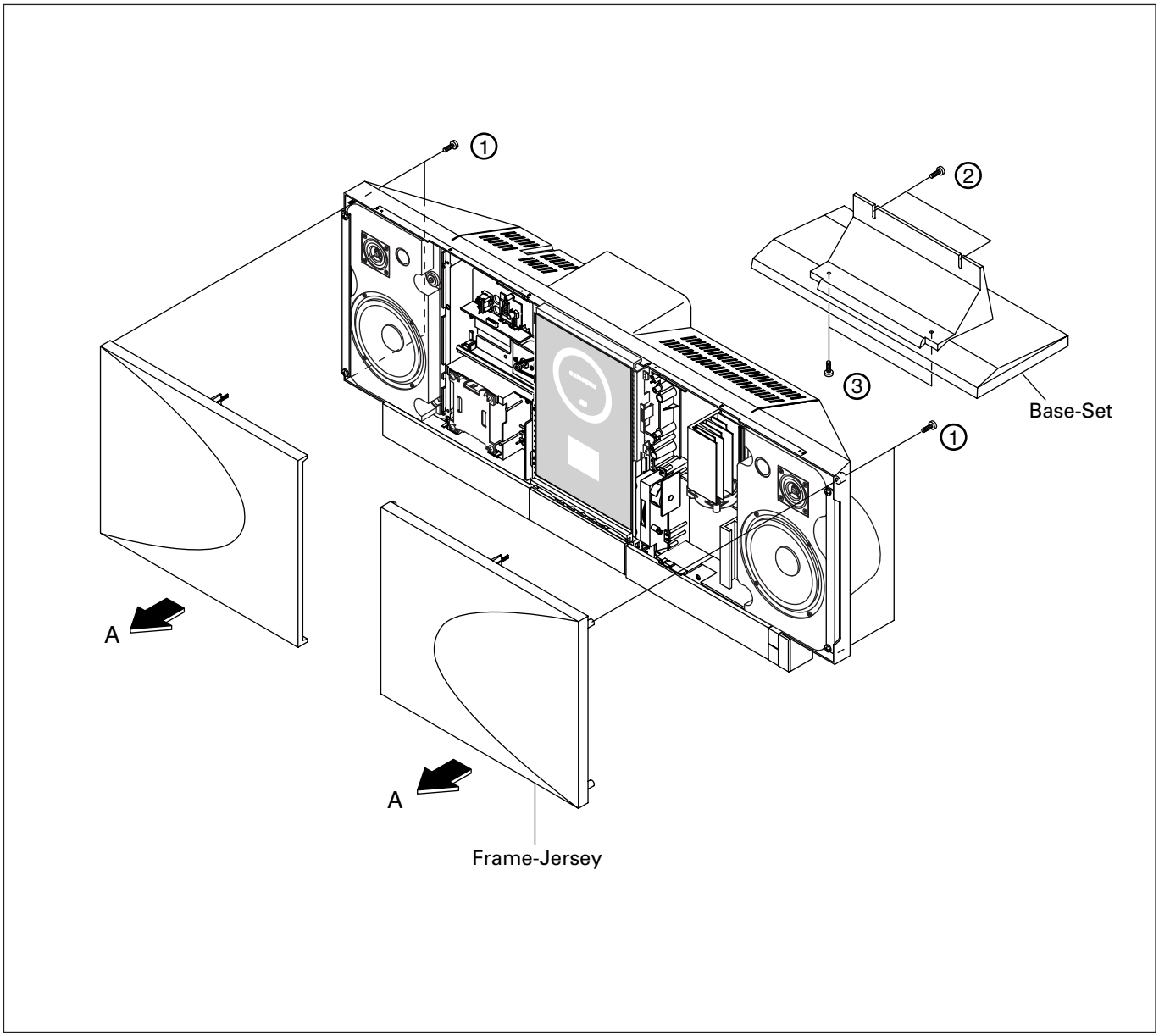


Figure 3-1

3-2 Front

1. Disassemble the Ass'y-Glass (Arrow 'A').
2. Remove 4 screws ①.
3. Remove 4 screws ② and disassemble the Ass'y-CD (Arrow 'B').
4. Remove 4 screws ③ and disassemble Decoration-Cassette (Arrow 'C').
5. Remove 4 screws ④ and disassemble the Housing-Cassette (Arrow 'C').

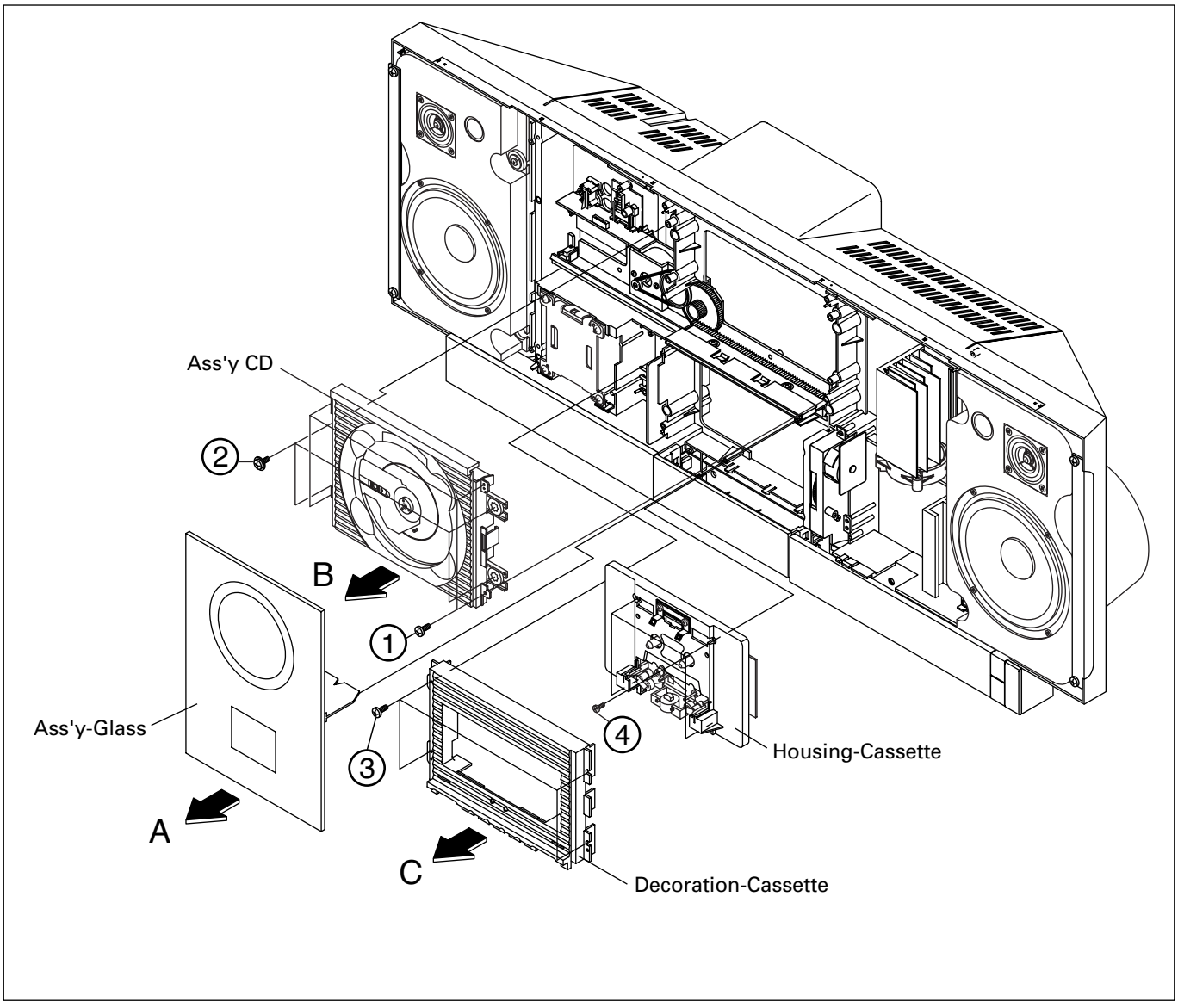


Figure 3-2

3-3 Frame-Main Ass'y

1. Remove 3 screws ②.
2. Remove 11 screws ①.
3. Disassemble the Frame-Main Ass'y (Arrow 'A').

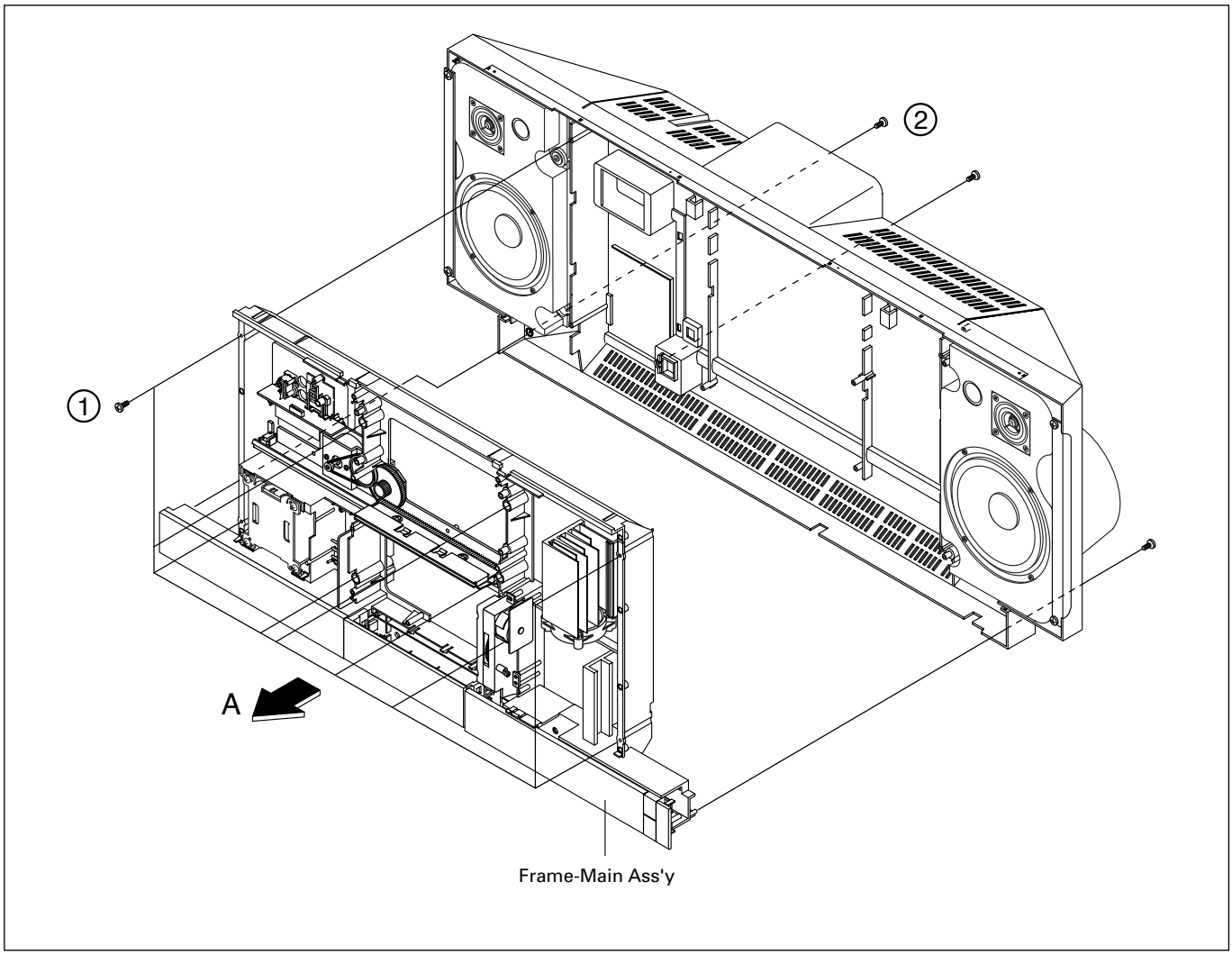


Figure 3-3

3-4 Key-Ass'y

1. Move the Gear (part of Gear-Box) to open the door. (Arrow 'A').
2. Disassemble the Knob-Ass'y (Arrow 'C').

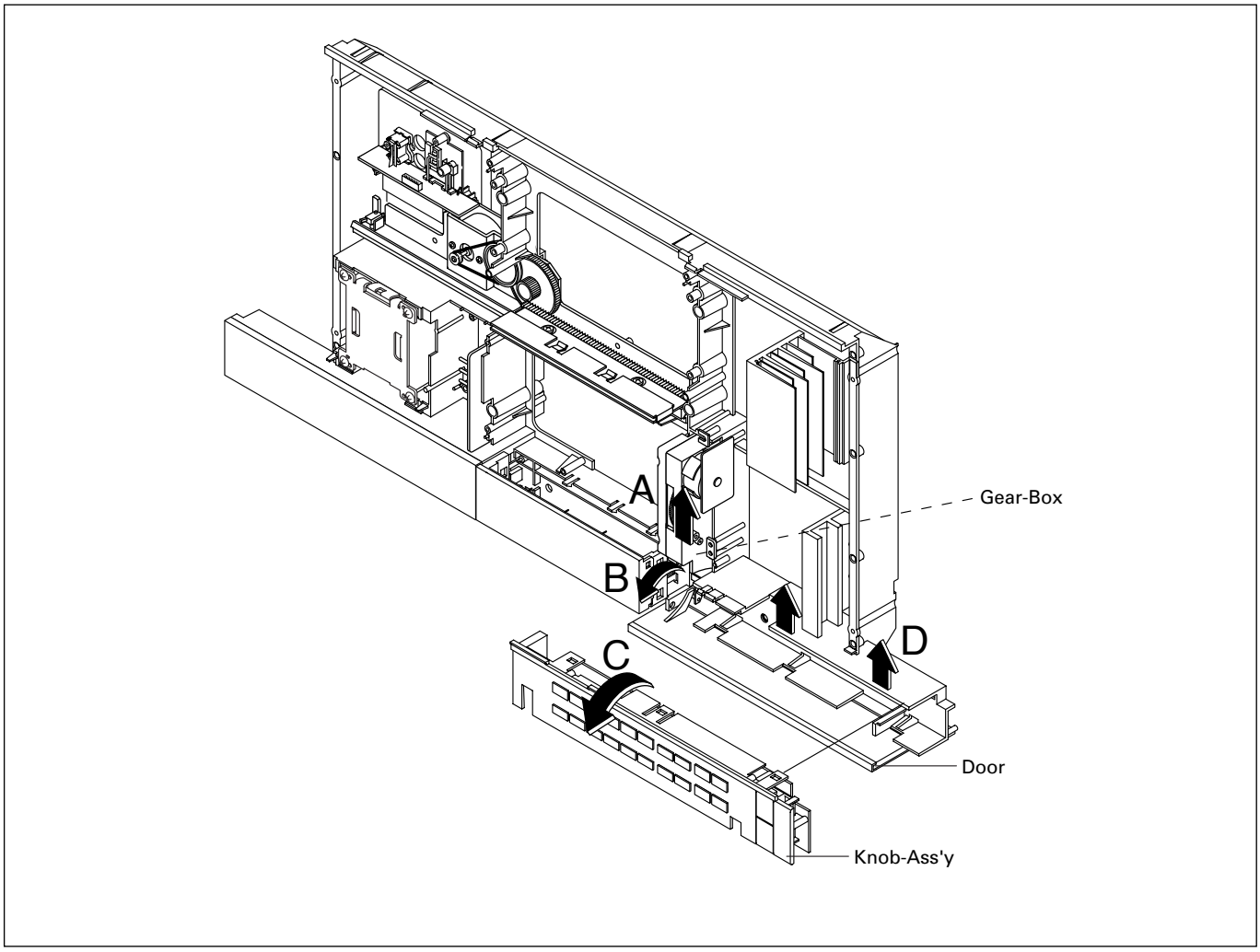
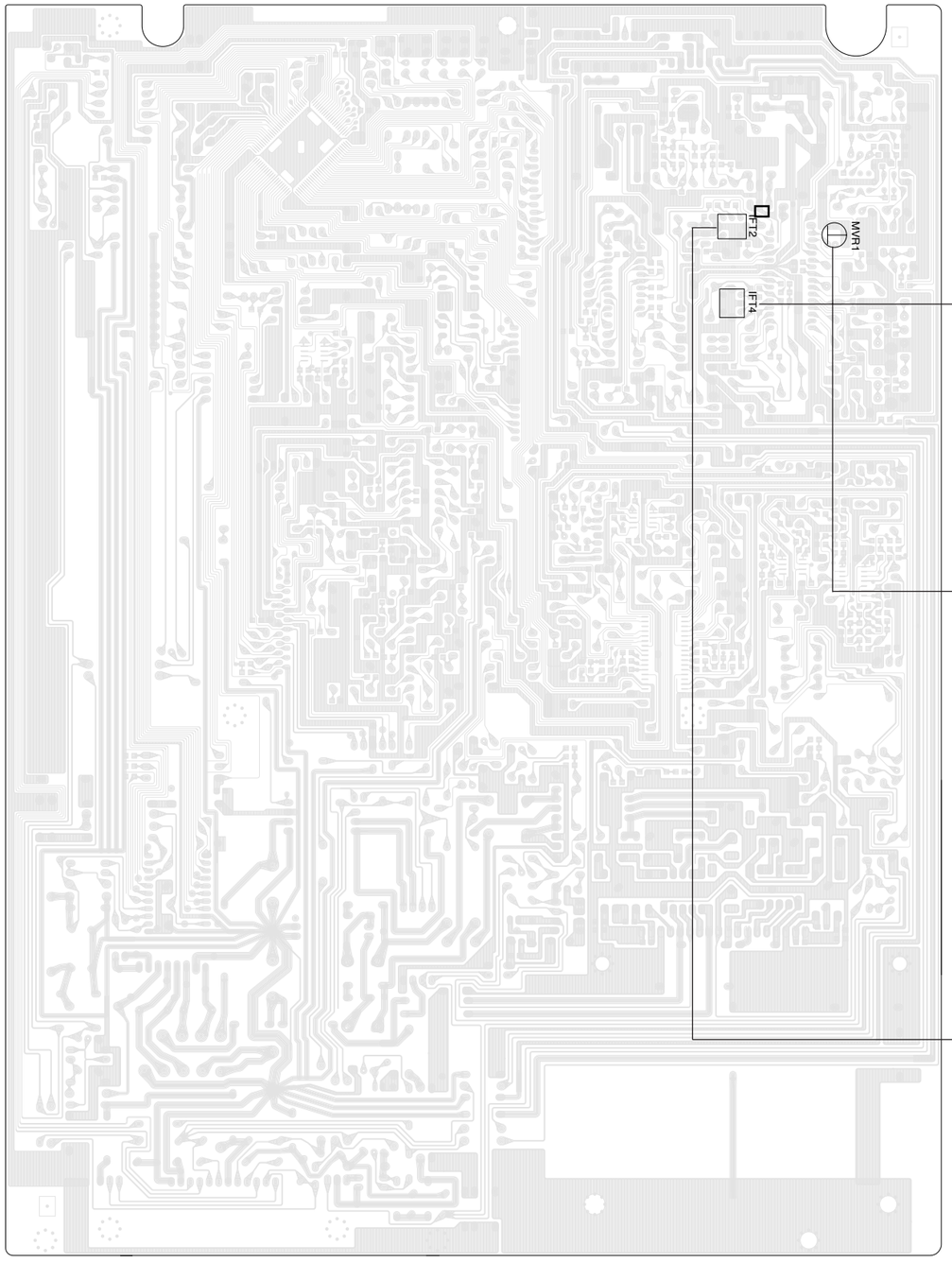


Figure 3-4

4. Alignment and Adjustments

4-1 Tuner



FM THD Adjustment	
SSG FREQ.	98 MHz
Adjustment point (IFT6)	FM DETECTOR COIL
Minimum Distortion (Figure 4-1)	

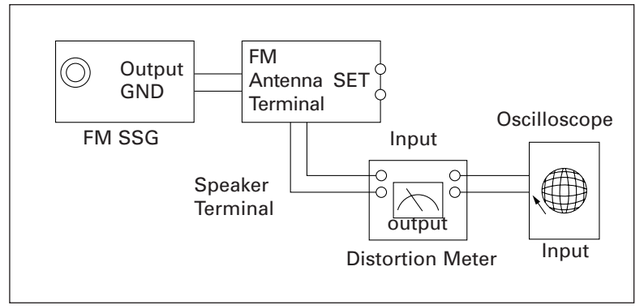


Figure4-1 IF CENTER and THD Adjustment

FM Search Level Adjustment	
SSG FREQ.	98 MHz
Adjustment point (MSR1)	SEMI-VR(5KB)
"TUNED" is shown on FLT (Figure 4-2)	

* Note : Adjust FM S.S.G Level to
EMF 21dB(Included Loss)

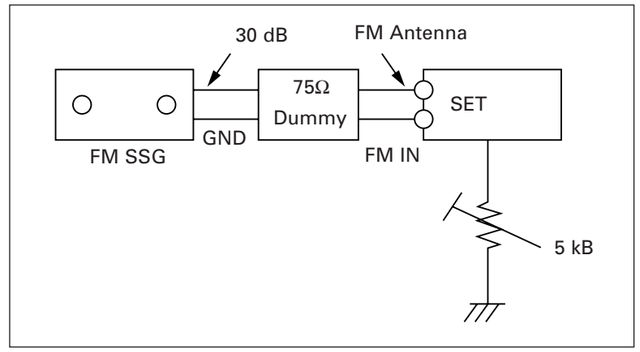


Figure4-2 FM Auto Search Level Adjustment

AM IF Adjustment	
SSG FREQ.	594 MHz
Adjustment point (IFT2)	AM IF COIL
Level : Maximum (Figure 4-3)	

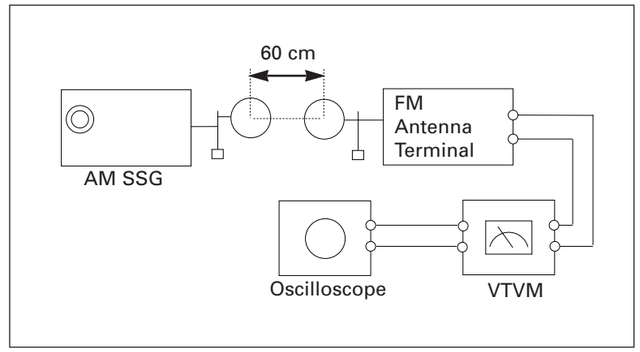


Figure4-3 AM IF Level Adjustment

4-2 Cassette Deck

4-2-1 To Adjust Tape Speed

Notes

1) Measuring tape: i) MTT-111 (or equivalent)
(Tapes recorded with 3kHz)
2) Connect the cassette deck to the frequency counter as shown in figure 4-4.

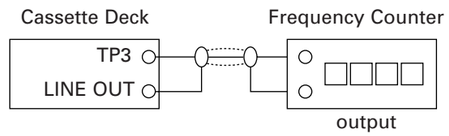
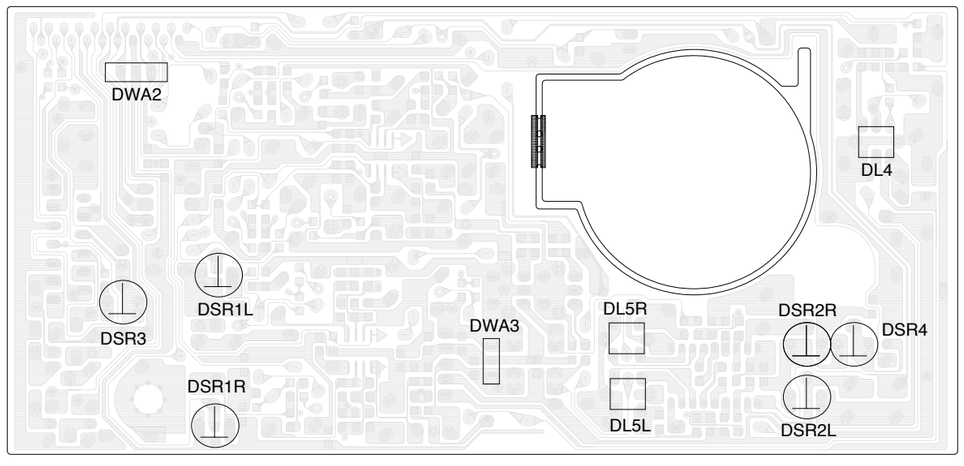


Figure 4-4

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	Control counter	Output (connected to the frequency counter)	1) Deck:MTT-111 2) Press PLAY SW button	Turn DSR3 to left and right	3KHz ±1%	



4-2-2 To Adjust Playback Head

Notes

1) Before the actual adjustment, clean the play/recording head.
2) Measuring tape :
i) MTT-114NA(or equivalent 12.5kHz AZIMUTH control)
ii) MTT-150(or equivalent : Dolby level 200nwb/m)
3) Dolby NR SW OFF
4) The cassette deck is connections as shown in figure 4-6.

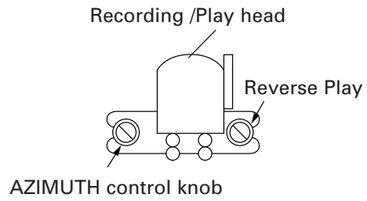


Figure 4-5

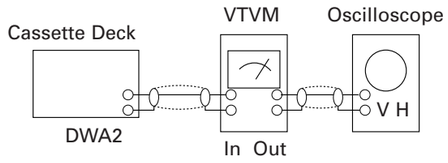


Figure 4-6

① Adjust Deck Replay Level

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	AZIMUTH	DWA2 Output (VTVM is connected to the scope)	After putting MTT-114NA into Deck 1 1) Press FWD PLAY button. 2) Press REV PLAY button.	1) Turn the control knob to as shown in Figure4-5. 2) Adjust the right control screw to playback REV. Mode	Max output and same phase (both channels)	After adjustment secure it with REGION LOCK.
2	Replay out Level	Same as above	PLAY MTT-150 on Deck .	L-CH:Turn DSR1L to the right and left R-CH:Turn DSR1R to the right and left	25mV ±0.5dB	See the diagram for adjustment locations.

4-2-3 To Adjust Recording PLAY

NOTES

1) Connect the measuring instruments as shown in Figure 4-7.
2) Set the DOLBY NR Switch off.
3) Measuring tape:
   i) MTT-5562(or equivalent CrO2 recording)
   ii) MTT-5512 (or equivalent: normal recording)
4) The input signals supply 1kHz 250mV into AUX IN of AMP (AUDIO OSC.)

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	BIAS OSC. Frequency	Connect the frequency counter to DWA3	Insert MTT-5562 into Deck, then press REC Pause button.	Turn BIAS oscillator frequency coil (DL4) to the right and left	105kHz ±5%	See diagram for adjustment locations
2	Recording play OSC. level	Connect to DWA3 as shown in Figure4-7 and read VTVM (DSR2L,2R: MAX Condition)	Insert MTT-5562 into Deck, then press REC Pause button.	Turn: DSR5R,5L the right and left.	VTVM Maximum	See diagram for adjustment locations
3	CrO2 REC level adjustment	Connect to DWA3 as shown in Figure 4-7 and read the VTVM	Insert MTT-5562 into Deck, then press REC Pause button.	L-CH: Turn DSR2L and R-CH: DSR2R to the right and left	VTVM (27V ±5%)	See diagram for adjustment locations
4	Normal REC. level adjustment	Connect to DWA3 as shown in Figure 4-7 and read the VTVM	Insert MTT-5512 into Deck, then press REC Pause button.	DSR4 turn DSR4 to the right and left	VTVM (14V ±5%)	See diagram for adjustment locations

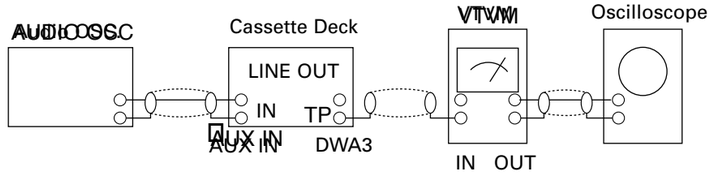
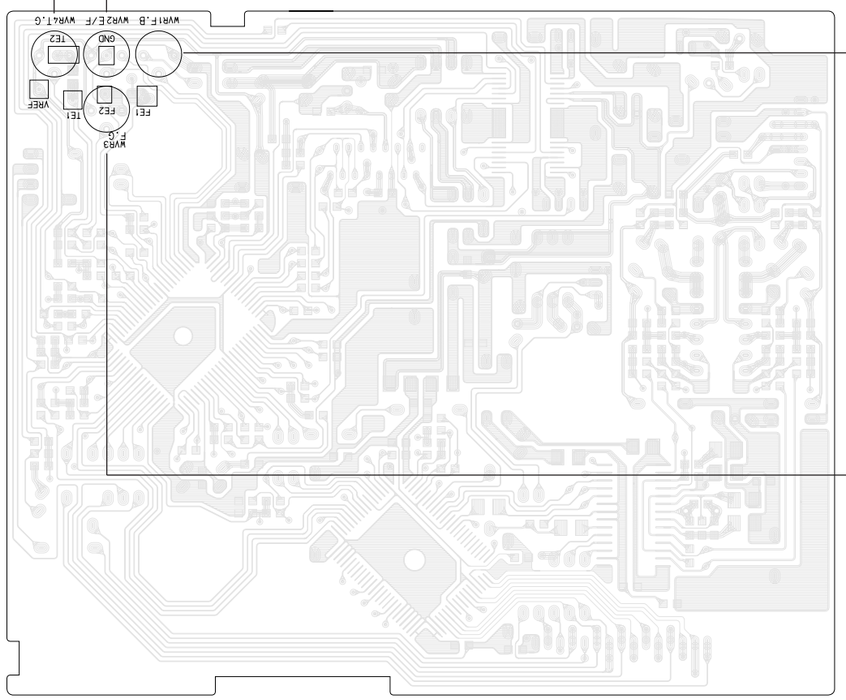


Figure 4-7

4-3 CD



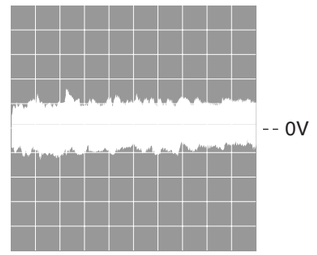
4-3-1 To Adjust FOCUS BIAS (STOP mode)

1. Set Volt/Div of the oscilloscope to DC 100mV.
2. Ground the scope input and set the waveform to 0v, DC range.
3. Connect the GND terminal of the oscilloscope to Vref, and (+) terminal to center of FE2.
4. Set WVR1 to 0mV.

4-3-2 To Adjust Tracking Gain (PLAY mode)

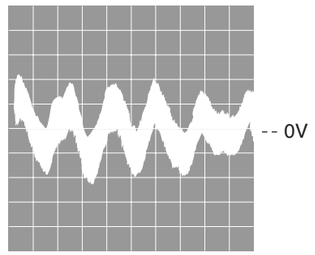
1. Connect the ground terminal of the oscilloscope to Vref and (+) terminal to TE2.
2. Load and play the disc.
3. While the disc is running adjust the gain with WVR4 as shown below.

Normal Frequency



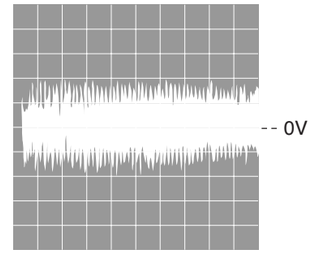
VOLT/DIV : 0.2V
TIME/DIV : 2mS

Low Frequency



VOLT/DIV : 0.2V
TIME/DIV : 2mS

High Frequency

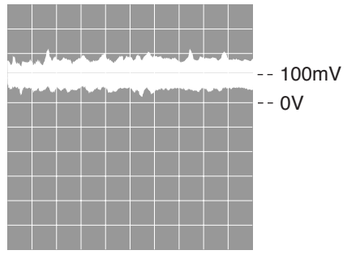


VOLT/DIV : 0.2V
TIME/DIV : 2mS

4-3-3 To Adjust Focus Gain (PLAY mode)

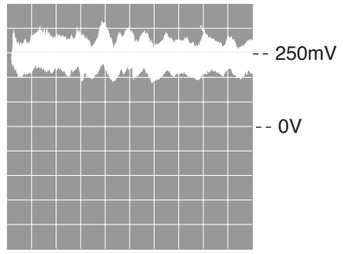
1. Connect the ground terminal of the oscilloscope to Vref and (+) terminal to FE2.
2. Load and play the disc.
3. While the disc is running adjust the gain with WVR3 as shown in the following figure.

Normal Frequency



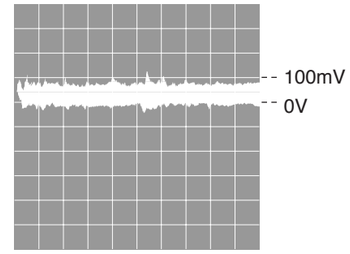
VOLT/DIV : 0.1V
TIME/DIV : 2mS

Low Frequency



VOLT/DIV : 0.1V
TIME/DIV : 2mS

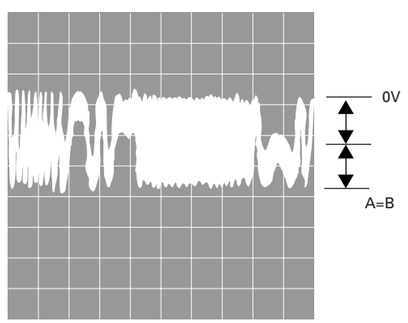
High Frequency



VOLT/DIV : 0.1V
TIME/DIV : 2mS

4-3-4 To Adjust E/F Balance (PLAY mode)

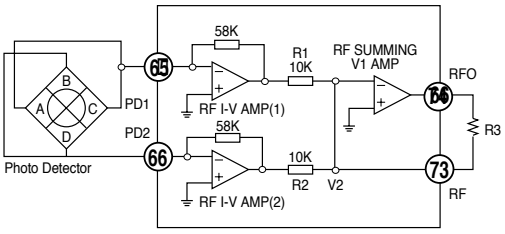
1. Set Time/Div of the oscilloscope to 2mS.
2. Set Volt/Div of the oscilloscope to 0.5V.
3. Ground the scope input and set to DC, and then set the DC range.
4. Connect the ground terminal of the oscilloscope to Vref and (+)terminal to TE2.
5. Load and play the disc.
6. Turn WVR4 counterclockwise to the minimum value.
7. Raise WVR2 and adjust the waveform so that its middle comes to ground of the oscilloscope. (Or, until the upper half of waveform becomes symmetrical to the bottom half,A=B)
8. Ajdut WVR4 (arrow) for normal sound.



5. Special Circuit Descriptions

5-1 CD

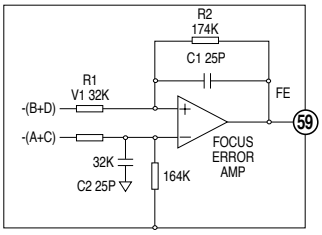
5-1-1 RF Amp (KA9220) : WIC01



RF I-V Amp(I-1) and RF I-V Amp (I-2) are converted to voltage (via internal resistance of 58kΩ) from the current of PD1 (A+C) and PD2 (B+D):
These voltages are added by the RF summing amplifier.
The signal (A+B+C+D) is applied to RFO (No.2 terminal)
RF output voltage is calculated as follows :

$$V_{RF} = -R3 \times (iPD1 + iPD2)$$
$$= -R3 \times (V_1/R_1 + V_2/R_2)$$
$$= -R3 \times \left(\frac{V1}{10K} + \frac{V2}{10K}\right)$$
$$= \frac{R3}{10K} \times (V_1 + V_2)$$

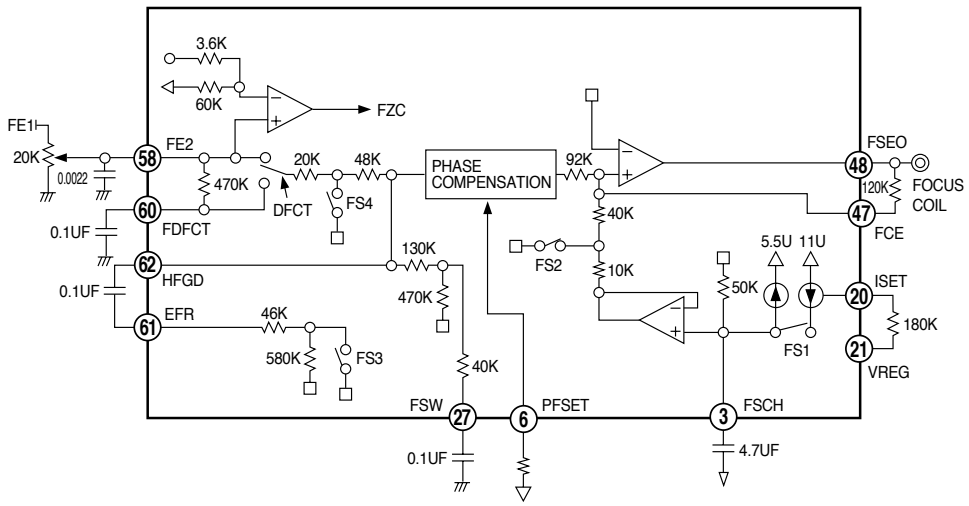
5-1-2 Focus Error Amp (KA9220) : WIC01



FOCUS ERROR Amp AMPLIFIES the difference
between RF I-V Amp (1) output (A+C) and RF I-V Amp (2) output (B+D)
These two signals are supplied to (-) and (+) input terminals of the FOCUS ERROR Amp. The FOCUS ERROR signal resulting from this difference voltage is applied to FE (Terminal No. 57).
The FE output voltage of this low frequency component varies according to {(A+C) - (B+D)}.
VFE is calculated as follows:
VFE=(R2/R1) X (V2-V1) = 5.4(V2-V1)
This FOCUS ERROR voltage is sent to FOCUS SERVO.

5-1-3 Focus Servo System (KA9220) : WIC01

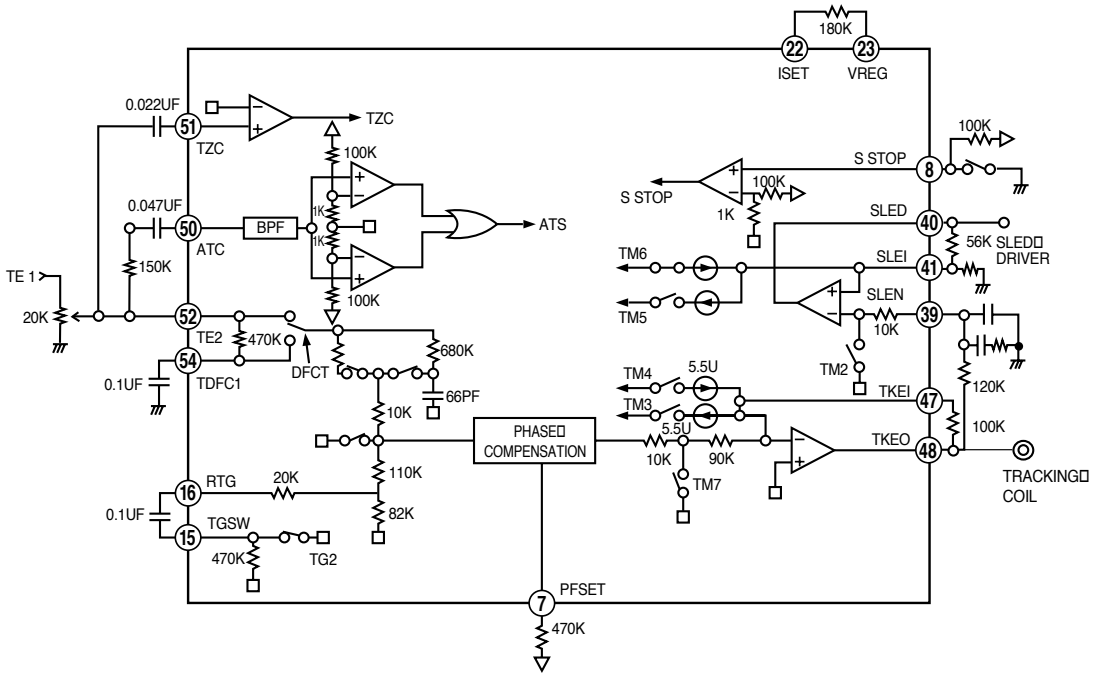
When FS3 is ON, high-frequency gain decreases (time constant is set by pin17, pin19, and capacitor connected to internal resistance). The capacitor between pin18 and GND sets the time constant to pass low freqencies in PLAY mode.



The maximum frequency of focus phase compensation is inversely proportional to the resistance connected to pin 7.
Focus search peak is about 1.1 Vp-p, and is inversely proportional to the resistance connected to pins 22,23
(if this resistance changes, the peak of track jump and sled kick change). The inversion input of FZC comparator is set to 5.7% of the difference between Vcc and VC (pin69) {(5.7% x (Vcc-Vc)}.
Note : If the resistance connected to pin 7 changes, the phase compensation peak of focus,tracking,sled servos change. At the same time, 'op-amp' dynamic range and offset voltage also change.

5-1-4 Tracking Sled Servo System (KA9220) : WIC01

The capacitor between pins 15 and 16 attenuates high frequencies when TG2 is off. The maximum frequency of tracking phase compensation is inversely proportional to the resistance connected to pin 7 (about 1.2kHz at 470k). The tracking jump (FWD and REV) is determined when TM3 and TM4 are ON, and the peak voltage induced from tracking coil is decided by both TM3 and TM4 current values and feedback resistance of pin 47.
Tracking jump max voltage = TM3 (TM4) current x feedback reisistance.

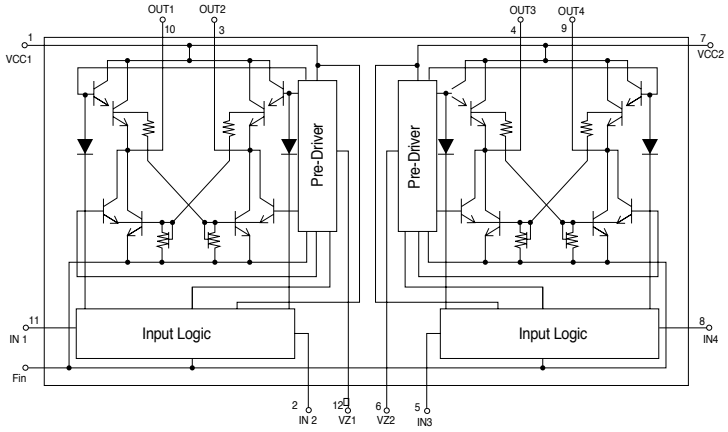


FWD or REV sled kick occurs when TM5 or TM6 is ON, and the peak voltage added to sled motor is decided by TM5 or TM6 current and the feedbadk resistance of pin 41.
Sled jump max voltage= TM5 (TM6) current x feedback resistance
Each SW current is decided by the resistance connected to pin 22 and 23.
When the resistance is about 150Ω,

TM3 or TM4 = 11μA,
TM5 or TM6 = 22μA,

This current is inversely proportional to the resistor, variable within a range of 5 to 40μA for TM3.
STOP is the ON/OFF detection signal for the limit SW (or the sled motor's innermost cirumference).

5-1-5 Motor Drive (LB1649) : UIC4



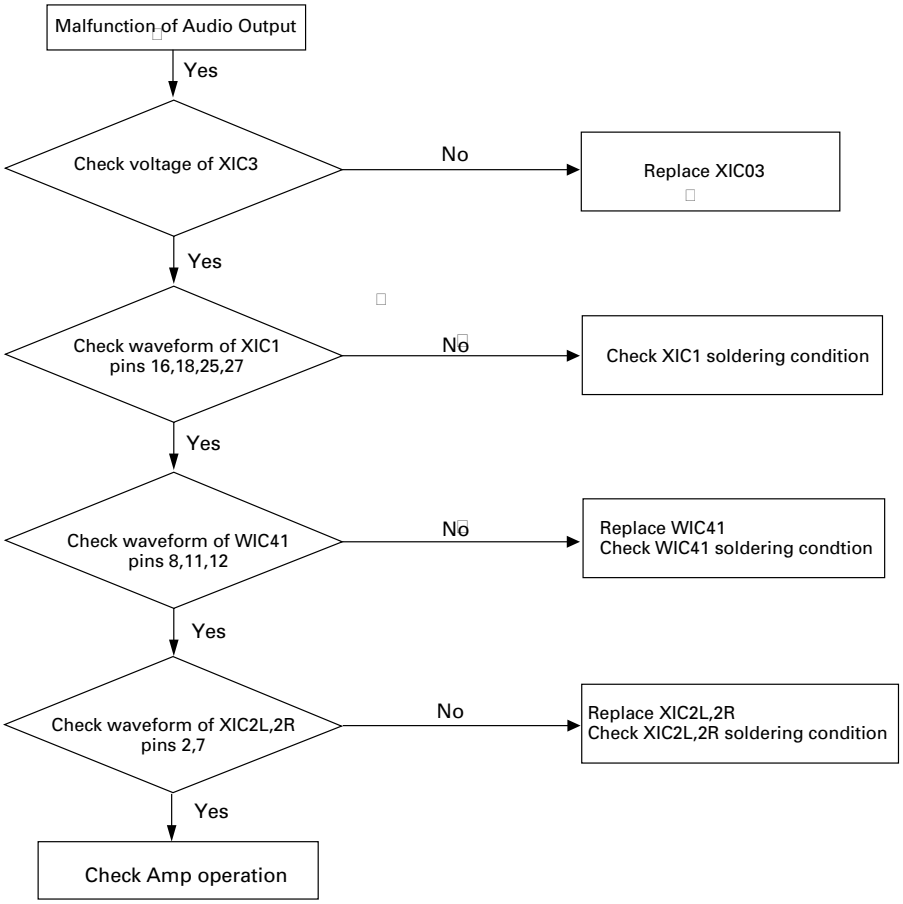
IN 1	2	OUT1	OUT1
0	0	L	L
1	0	H	L
0	1	L	H
1	1	L	L

IN 3	4	OUT3	OUT4
0	0	L	L
1	0	H	L
0	1	L	H
1	1	L	L

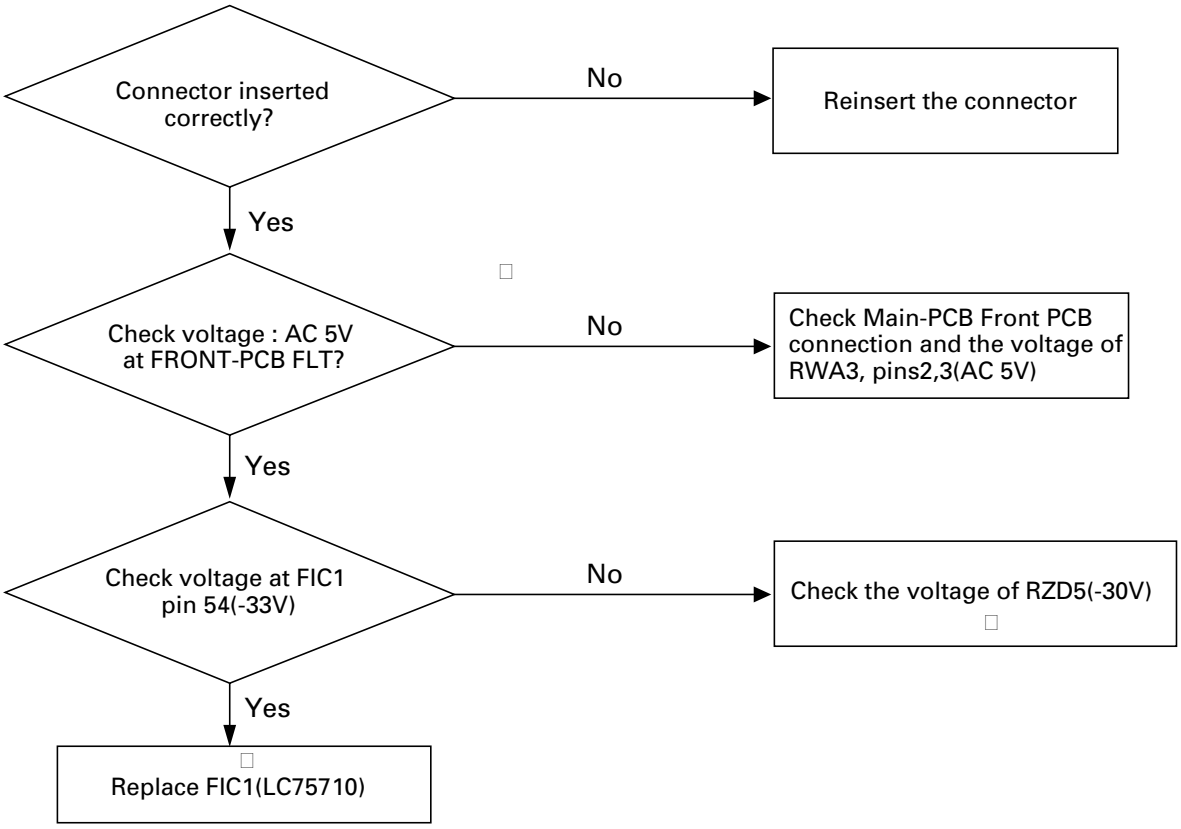
6. Troubleshooting

6-1 Amplifier

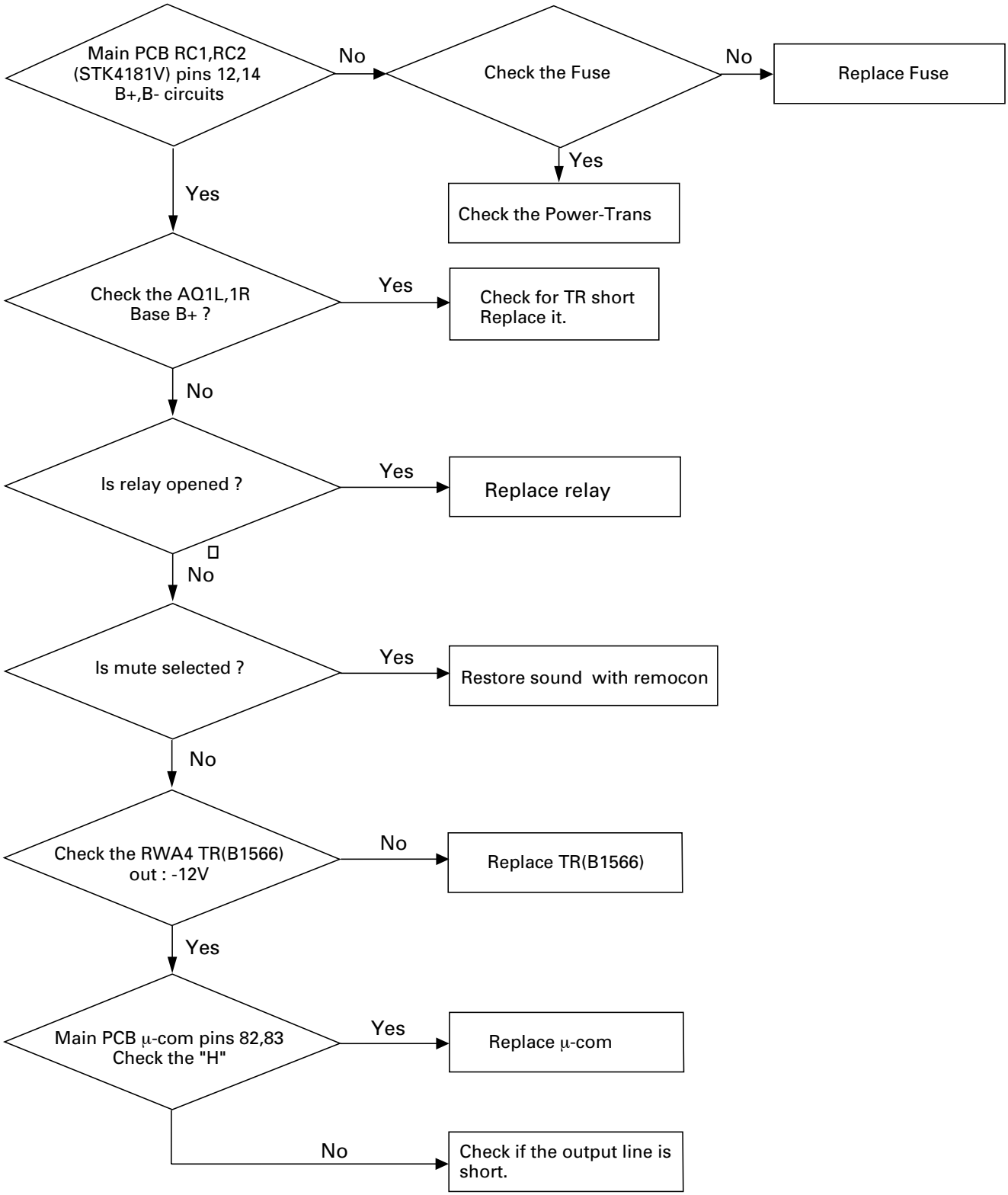
6-1-1 Power Malfunction



6-1-2 FLT Malfunction

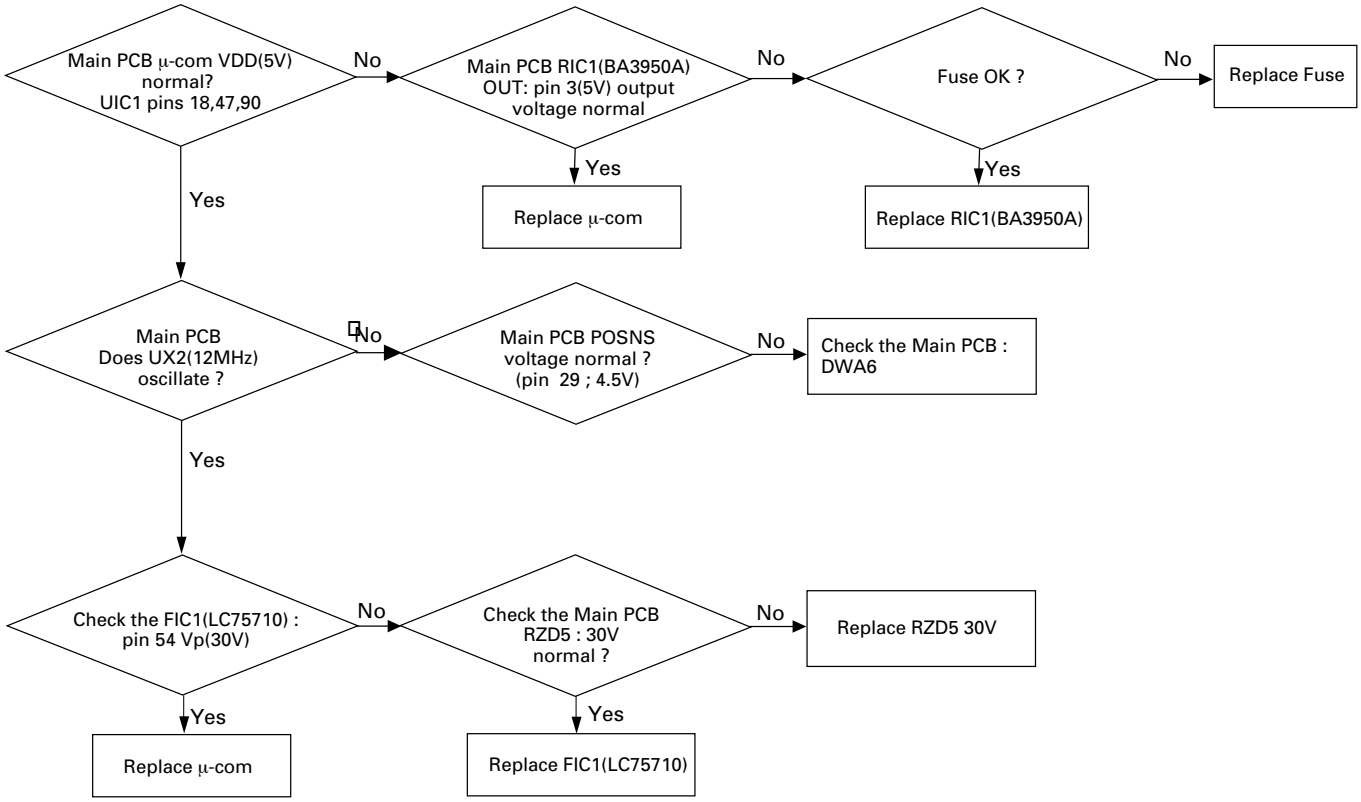


6-1-3 No Output

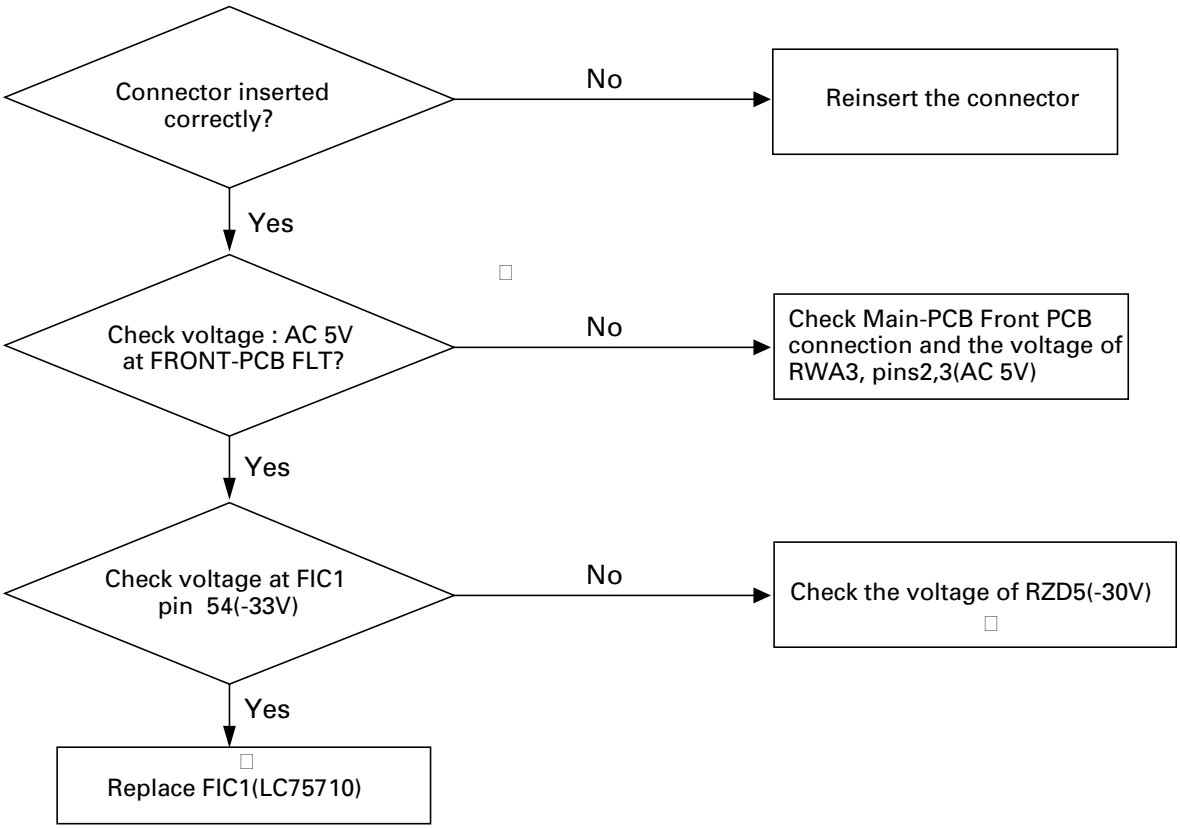


6-2 Cassette Deck

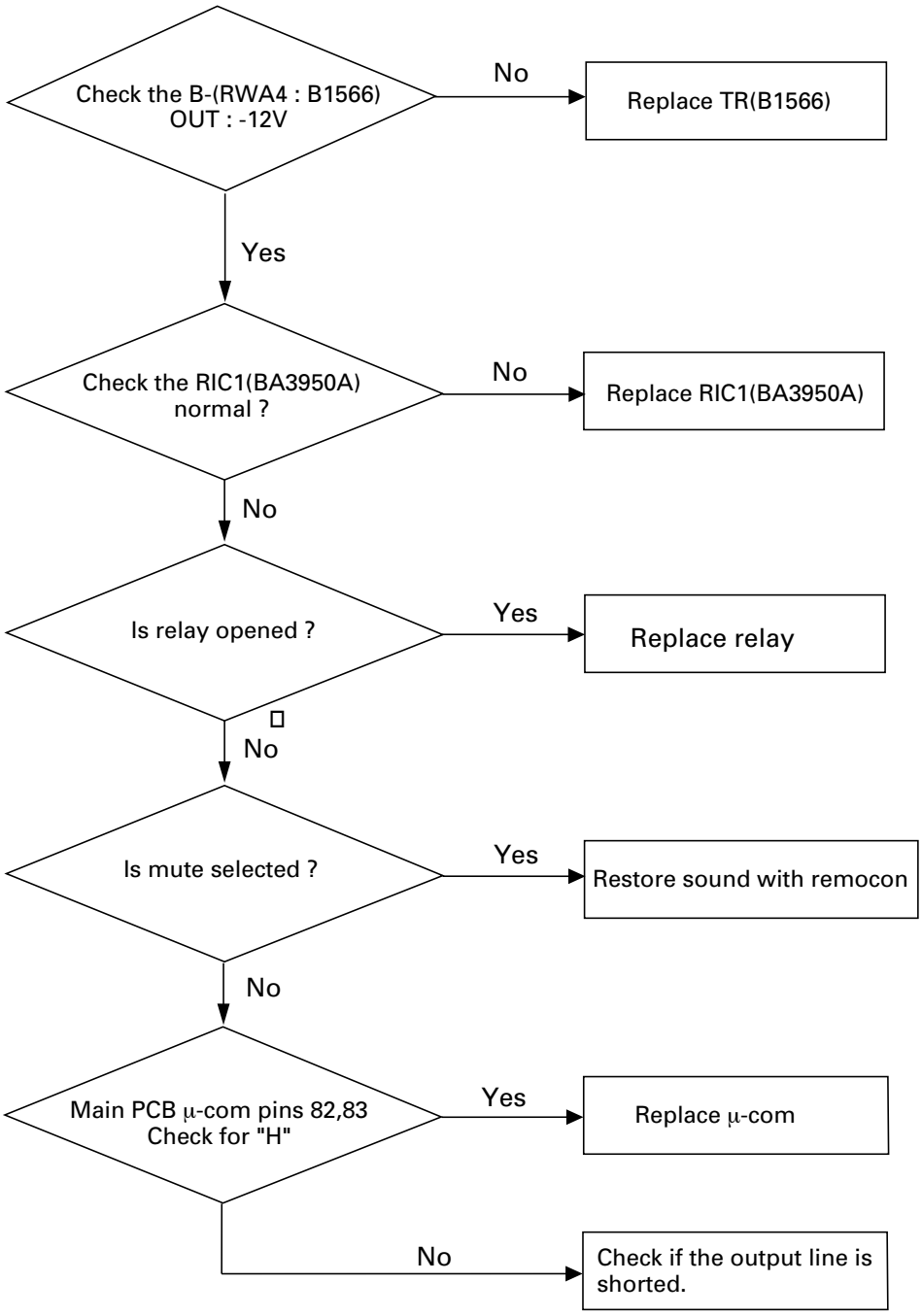
6-2-1 Power Malfunction



6-2-2 FLT Malfunction

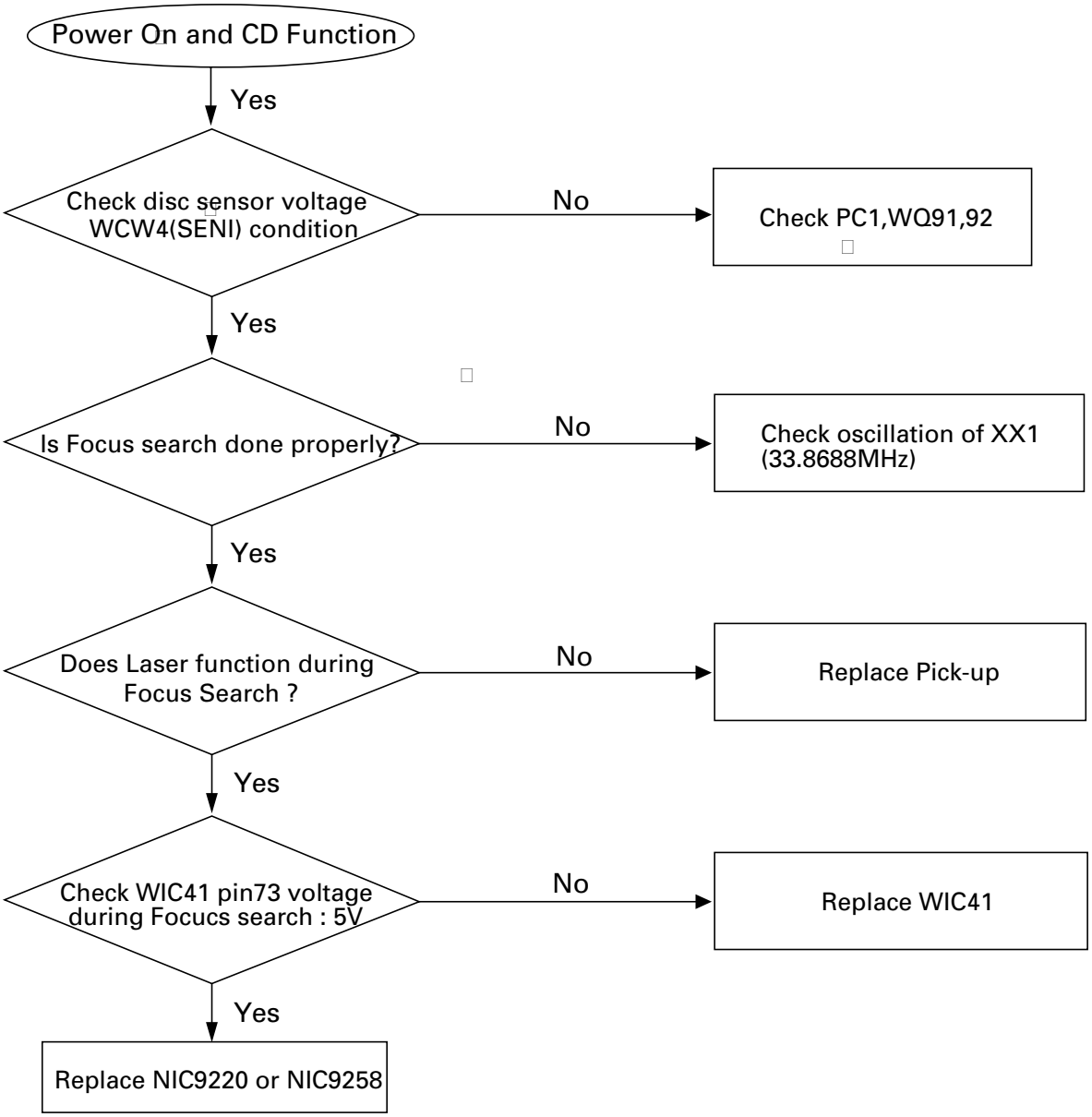


6-2-3 No Output

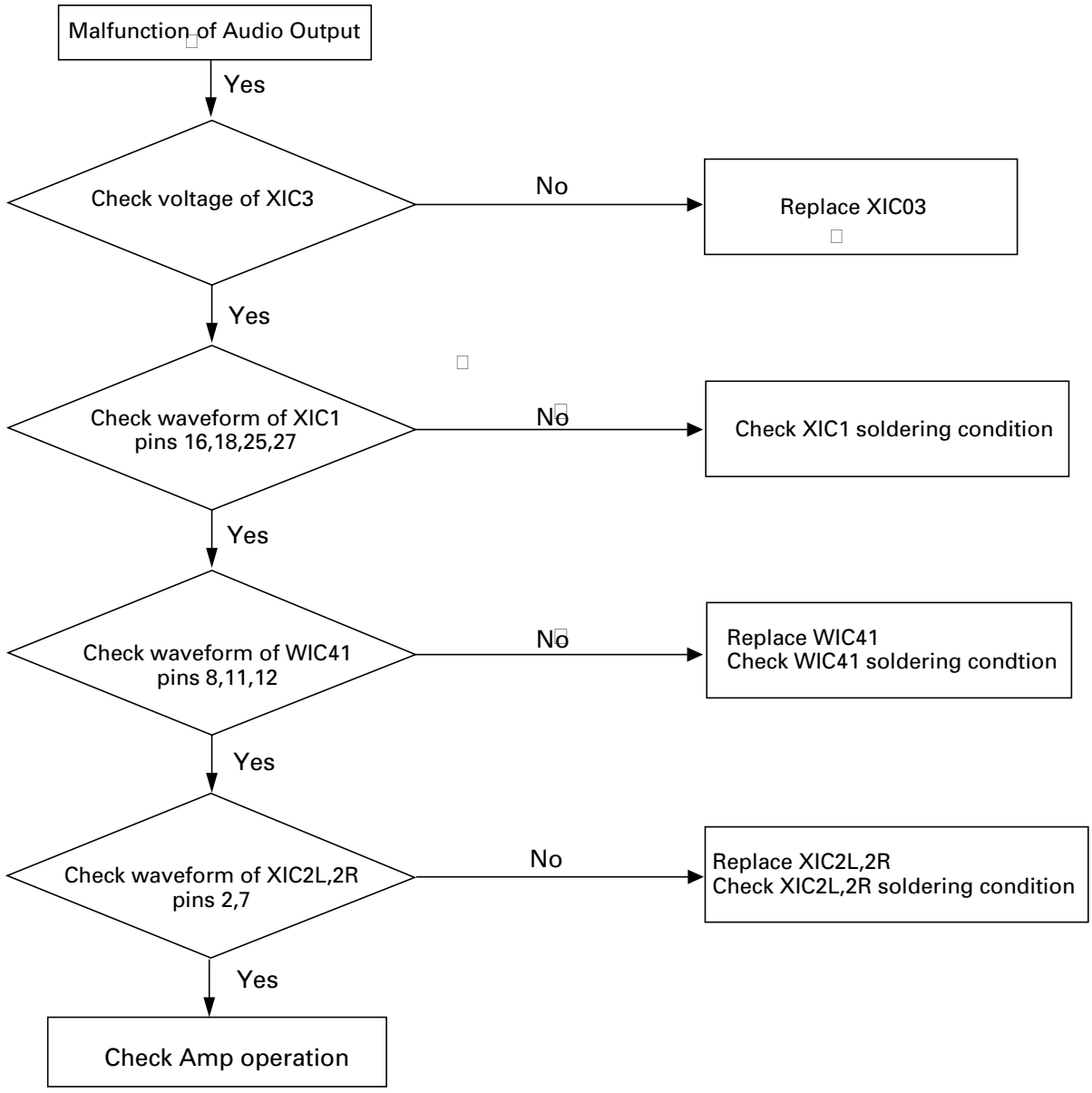


6-3 CD

6-3-1 Disc Revolution Malfunction

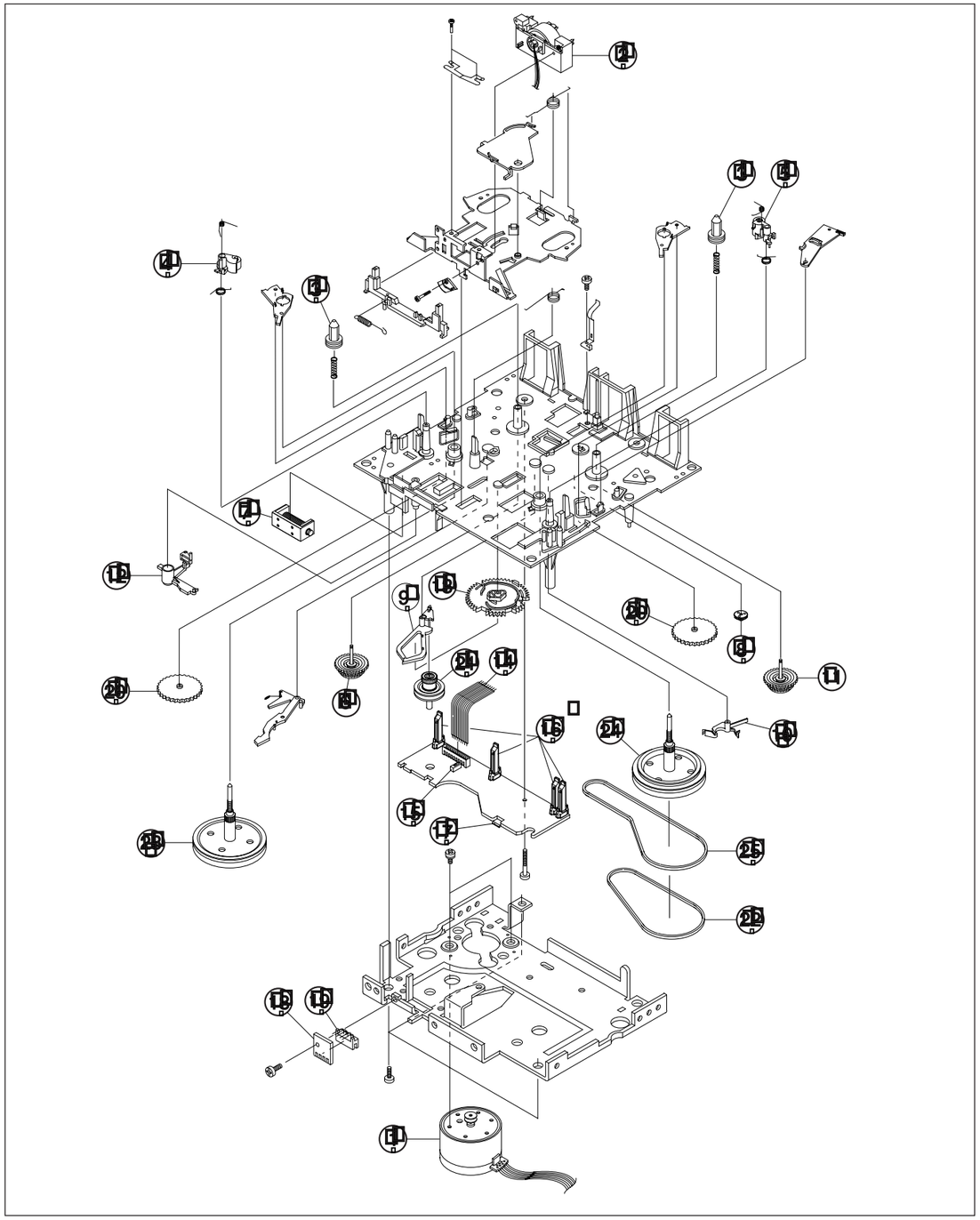


6-3-2 Audio Output Malfunction



7.Exploded Views and Parts List

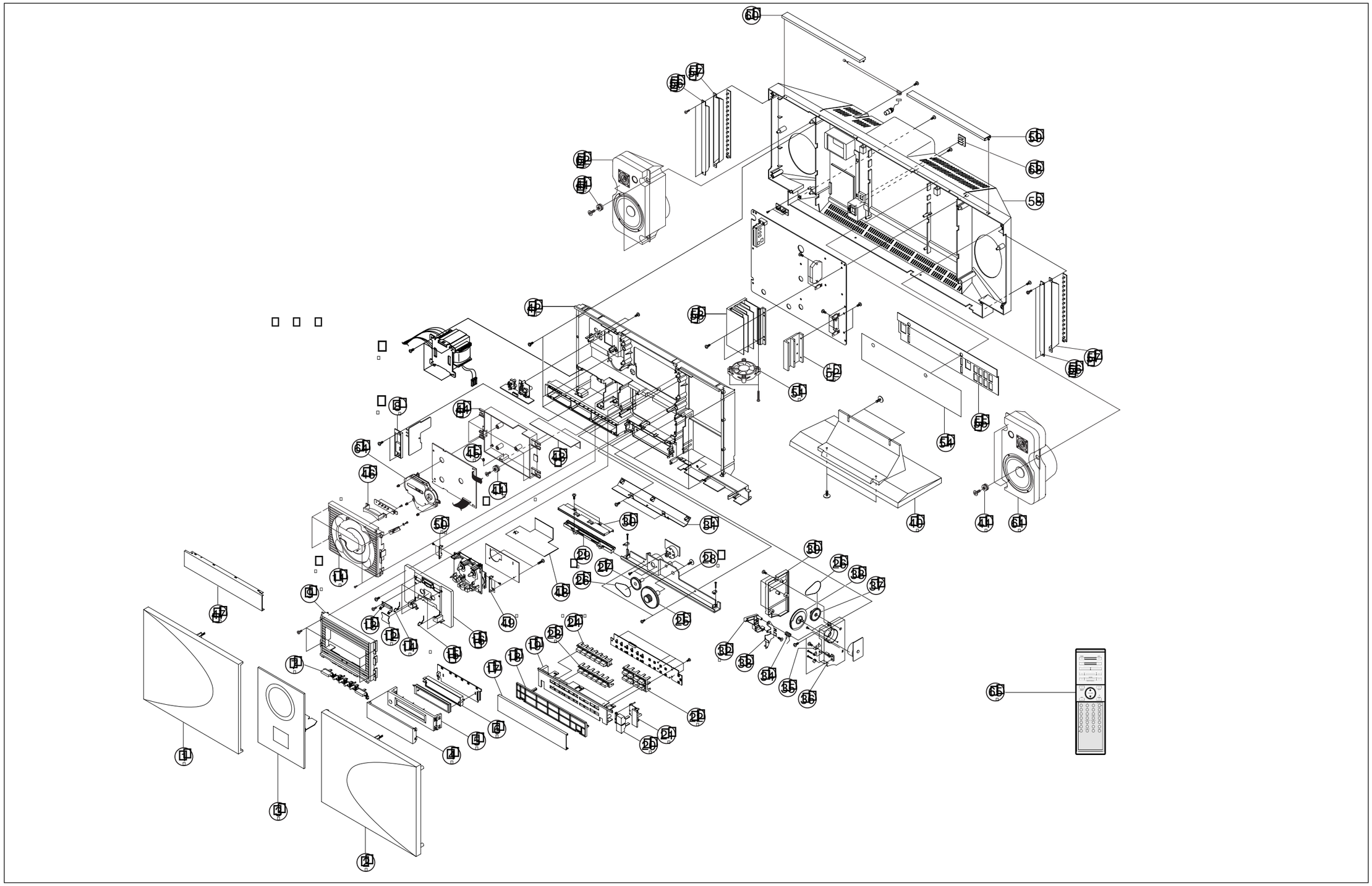
7-1 Cassette Deck Exploded View and Parts List



No.	New Code No.	Description	Specification	Old Code No.
	AH59-20002V	DECK CASSETTE	CRF452	17159-0038-00
1	AH81-10021W	MOTOR	SHW2L	10000-503-004
2	AH81-10022J	ASS'Y HOLDER HEAD	YK56RAB4N3	10000-524-023
3	AH81-10031U	CAP REEL	22-222-4041	10000-611-009
4	AH81-10031V	ASS'Y PINCH ARM L	22-093-4149	10000-611-010
5	AH81-10031W	ASS'Y PINCH ARM R	22-093-4150	10000-611-012
6	AH81-10031Z	ASS'Y SUB REEL L	22-093-3071	10000-611-017
7	AH81-10032A	SOLENOID	07-W021C	10000-611-018
8	AH81-10032B	GEAR FF	22-222-4048	10000-611-021
9	AH81-10032C	ASS'Y ARM FR	22-093-4061	10000-611-022
10	AH81-10032H	ARM BRAKE	22-093-3028	10000-611-028
11	AH81-10032J	ASS'Y SUB REEL R	22-093-4151	10000-611-029
12	AH81-10032C	ARM TRIGER	22-268-3008	10000-611-030
13	AH81-10032L	GEAR-CAM	22-221-2090	10000-611-031
14	AH81-10032N	WIRE(13P)	22-072-4080	10000-611-035
15	AH81-10032Y	SWITCH-MODE	04-SW150	10000-611-051
16	AH81-10032Q	SWITCH LEAF	04-MT510041MVJ1	10000-611-039
17	AH81-10032R	HALL IC	00-LB9051A	10000-611-040
18	AH81-10032T	P.C.BOARD	22-070-4046	10000-611-046
19	AH81-10032U	HOUSING	00-S5BEH	10000-611-047
20	AH81-10033E	GEAR-PLAY	22-222-4282	10000-611-057
21	AH81-10033H	ASS'Y PULLEY FR	CRF452 22-093-3918	10000-611-063
22	AH81-10033J	BELT FR	CRF452 02-083-4127	10000-611-064
23	AH81-10033K	ASS'Y FLYWHEEL L	CRF452 22-220-3738	10000-611-065
24	AH81-10033L	ASS'Y FLYWHEEL R	CRF452 22-093-3917	10000-611-066
25	AH81-10033M	BELT MAIN	CRF452 22-084-4128	10000-611-067

7-2 Main Exploded View and Parts List

7-2-1 Exploded View



7-2-2 Parts List

No.	New Code No.	Description	Specification	Old Code No.
1	AH61-10634A	FRAME-JERSEY,L	-,MIPS,94HB,T3.0 L330.9 W49.3	
2	AH61-10635A	FRAME-JERSEY,R	-,MIPS,94HAB,T3.0 L330.9 W49.3	
3	AH95-50221A	ASS'Y-GLASS	MM-S1000,GLASS	
4	AH64-40380A	WINDOW-FLT	-,PMMA,94HB,T2.5,VIOLET	
5	AH63-30196A	COVER-FLT	ABS,94HB,BLK	
6	AH61-20381A	HOLDER-FLT	-,ABS,94HB,BLK,-,MM-S1000	
7	AH64-11090A	KNOB-FUNCTION	-,ABS,94HB,BLK,-,MM-S1000	
8	AH61-20382A	HOLDER-AC JACK	-,ABS,94HB,BLK,-,S1000	
9	AH64-40374A	DECORATION-CASS	-,ABS,94HB,T2.0,BLK	
11	AH64-40375A	DECORATION-CD	-,ABS,94HB,T2.5,BLK	
12	AH67-20013B	REFELECTOR-DECK	-,T,PAPER,-,-,-,SILVER	
13	AH61-60310A	SPRING-GUIDE	-,PS,SUS304,PI0.4,-,-,MM-S1000	
14	AH61-60308A	SPRING-TAPE,L	-,PS,SUS304,PI0.5,-,-,MM-S1000	
15	AH61-60309A	SPRING-TAPE,R	-,PS,SUS304,PI0.5,-,-,MM-S1000	
16	AH61-80031A	HOUSING-CASS	-,ABS,T2.0 X L162 X W110.5 BLK	
17	AH64-40377A	DECORATION-WINDDOW, R	-,AL,-,T1.0,BLK,SPRAY	
18	AH64-50314A	DOOR-R	-,ABS,94HB,T4.8,L239 X 43.5 BLK	
19	AH64-20130A	PANEL-WINDOW,R	-,ABS,94HB,L260.5 X W47,BLK	
20	AH64-11073A	KNOB-VOLUME	-,ABS,94HB,BLK,-,MM-S1000	
21	AH64-11074A	KNOB-OPEN	-,ABS,94HB,BLK,-,MM-S1000	
22	AH64-11071A	KNOB-TUNER	-,ABS,94HB,BLK,-,MM-S1000	
23	AH64-11072A	KNOB-DOLBY	-,ABS,94HB,BLK,-,MM-S1000	
24	AH64-11075A	KNOB-DECK	-,ABS,94HB,BLK,DOUBLE	
25	AH66-20173A	GEAR-DOOR	-,POM,M0.5/M0.8,Z86/Z22	
26	AH66-60031A	BELT-PULLEY	-,RUBBER,T1.2,8%,L44.5	
27	AH66-10022A	PULLEY-DOOR	-,POM,BLK	
28	AH61-50253A	GUIDE-RACK	-,ABS,94HB,T3.0,BLK,G/F20%	
29	AH66-20174A	GEAR-RACK	-,POM,M0.8,-,BLK,-,MM-S1000	
30	AH95-50210A	ASS'Y HOLDER DOOR	MM-S1000,ABS	
31	AH61-10636A	BRACKET-BOTTOM	-,SECC,-,T1.6,NTR,BLK	
32	AH66-80021A	LINK-GEAR	-,POM,T3.0,-,MM-S1000	
33	AH66-30084A	LEVER-DOOR	-,SECC,-,T1.0,-,-,MM-S1000	
34	AH61-60324A	SPRING-LEVER	-,PS,SUS304,PI1.0,OD8	
35	AH61-60307A	SPRING-SW	-,PS,SUS304,PI0.2,-,-,MM-S1000	
36	AH61-80033A	HOUSING-BOTTOM	-,ABS,T2.5 X L123.5 X W72,BLK	
37	AH66-10021A	PULLEY-WINDOW	-,POM,PCD6,MM-S1000	
38	AH66-20175A	GEAR-WINDOW	-,POM,M0.5,Z120,BLK	
39	AH61-80034A	HOUSING-TOP	-,ABS,T2.5 X L123.5 X 72,BLK	
40	AH61-20386A	BASE-SET	-,MIPS, 94HB,BLK,-,MM-S1000	
41	AH63-60020A	SPACER-CD	-,RUBBER,T10.5,BLK,BR,MM-S1000	
42	AH61-10633A	FRAME-MAIN	-,MIPS,94HB,T3.0,L698.5 W105.5	
43	AH63-70114A	SHEET-RACK	-,PVC,T0.3,L130,W15,BLK	
44	AH61-80032A	HOUSING-CD	-,ABS,T3.0 X L206 X W122,BLK	
45	AH73-10012B	RUBBER-MECHA	SILICON,-,MM-S1000,BLK	
46	AH67-10125A	LENS-CD	-,+,PMMA,T2.0,69X12.5,-	
47	AH64-40376A	DECORATION-WINDOW,L	-,AL,-,T1.0,-,BLK,SPRAY	
48	AH63-40156A	SHIELD-DECK	-,ET,T0.3,-,MM-S1000	
49	AH61-10637A	BRACKET-DECK,L	-,SECC,-,T1.2,NTR,-	
50	AH61-10638A	BRACKET-DECK,R	-,SECC,-,T1.2,NTR,-	
51	AH31-10020A	FAN-DC	D0620B-12M,12VDC/0.16A	
52	AH62-30109A	HEAT SINK-TR	-,AL,V0,T3.0,-,WHT,EXTR	
53	AH62-30108A	HEAT SINK-MAIN	-,AL,V0,T6.0,-,WHT,EXTR	
54	AH63-70121A	SHEET-HANGER	PVC T0.15 BLK	
55	AH61-20389A	HANGER-IN	-,SECC,-,T1.2,BLK,SPRAY	
56	AH67-10126A	LENS-SIDE	-,+,PMMA,-,220 X13,-	
57	AH61-20383A	HOLDER-LENS	-,ABS,94HB,WHT	
58	AH64-30366A	CABINET-REAR	-,MIPS,94HB,T3.0,L825	
59	AH64-40379A	DECORATION-TOP,R	-,ABS,94HB,T5.0,BLK	
60	AH64-40378A	DECORATION-TOP,L	-,ABS,94HB,T5.0,BLK	
61	AH81-10628B	SPEAKER ASS'Y(R)	PSS1000	
62	AH81-10628A	SPEAKER ASS'Y(L)	PSS1000	
63	AH63-30081A	COVER-VOLTAGE	ABS,94HB,-,BLK,-,-	
64	AH91-60004A	ASS'Y-DECK CDP	D21SG	
65	AH59-10080W	REMOCON-ASS'Y	-,S1000,LC7464M,50	

8. Electrical Parts List

Location No.	New Code No.	Description	Specification	Old Code No.
	3809-001021	CABLE-FLAT;30V,80C,150MM,21P,1.25MM		
	AC39-32001A	CABLE-COAXIAL ASSY;SD-C123-14A,FTZ,		
	AH26-80142G	TRANS-POWER;EI74X53,230V,50HZ,S1000		
	AH39-10060G	POWER-CORD;-,CP2,KLCE-2F 0.75MM,3MT		
	AH39-20559A	LEAD CONNECTOR-ASSY;-,5239-03,5239-		
SPKR-MAIN,SPKL-MAIN	AH39-20559S	LEAD CONNECTOR-ASSY;-,51004,51004,2		
FRONT-MAIN	AH39-20559U	LEAD CONNECTOR-ASSY;-,51004,51004,1		
KEY-MAIN	AH39-20559V	LEAD CONNECTOR-ASSY;-,51004,51004,1		
	AH90-10612A	ASSY-FRONT PCB;MM-S1000,DOM		
	AH90-40444A	ASS'Y-KEY PCB;MM-S1000,KEY		
KLD1,2,3,4,5,6	0601-000141	LED;ROUND,GRN,3.1MM,555NM		A4150-0290
KJW1,2	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012		11119-101-000
KR7,8,17,18	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012		11119-101-122
KR9,19	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012		11119-101-152
KR10,20	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012		11119-101-182
KR1,2,3,4,5,6	2007-000401	R-CHIP;150OHM,5%,1/10W,DA,TP,2012		11119-101-151
KR16,26	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012		11119-101-153
KR11,21	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012		11119-101-222
KR12,22	2007-000515	R-CHIP;2.7KOHM,1%,1/10W,DA,TP,2012		
KR13,23	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012		11119-101-332
KR27	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012		11119-101-333
KR14,24	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012		11119-101-562
KR15,25	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012		11119-101-822
KSW1,2,3,4,5,6,7,8,9,10	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6		13559-901-100
KSW11,12,13,14,15,16				
KSW17,18,19				
KSW20,21,22,23				
KWA1	3711-000595	CONNECTOR-HEADER;BOX,10P,1R,2MM		13349-139-100
	AH90-40445A	ASSY-LED PCB;MM-S1000,LED		
LD1L,1R,2L,2R,3L,3R	0601-000146	LED;ROUND,GRN,3.1MM,563NM		A4150-0123
LD4L,4R,LD5L,5R,6L				
LD6R,7L,7R,8L,8R				
LD9L,9R,10L,10R				
LD11L,11R,12L				
LD12R,13L,13R,14L				
LD14R,15L,15R				
LR1L,1R,2L,2R,3L,3R	2007-000401	R-CHIP;150OHM,5%,1/10W,DA,TP,2012		11119-101-151
LR4L,4R,5L,5R,6L,6R				
LR4L,4R,5L,5R,6L,6R				
LWA1L,1R	3711-000827	CONNECTOR-HEADER;BOX,2P,1R,2MM		13349-119-020
	AH90-40446A	ASSY-DECK PCB;MM-S1000,DECK		
DD4,5,6,7	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
DD1L,1R,2L,2R,3L,3R				
DQ9,10	0501-000369	TR-SMALL SIGNAL;KSC2331-Y,NPN,1W,TO		12149-301-910
DQ13,14	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO		

Location No.	New Code No.	Description Specification	Old Code No.
DQ2L,2R,5L,5R,6L,6R DQ7,8,11,12,15	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K-22	12159-301-780
DQ4L,4R,16L,16R	0504-000122	TR-DIGITAL;KSR1009Y,NPN,300MW,4.7K,	12159-301-790
DQ3	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K-22	
DQ1L,1R	0505-000197	FET-SILICON;2SK373Y,N,-,-,-,400MW,T	B4054-0023
DIC1,2	1201-000163	IC-OP AMP;4560,SOP,8P,150MIL,DUAL,1	12119-401-300
DR2	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X	11018-877-104
DR81L	2001-000302	R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-100
DR4	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.	11018-877-102
DR1	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X	11018-877-472
DR3	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3	11018-877-471
DR6	2001-001146	R-CARBON(S);4.7OHM,5%,1/2W,AA,TP,2.	11018-377-479
DR7,8	2001-001178	R-CARBON(S);680OHM,5%,1/2W,AA,TP,2.	11018-377-681
DR51L,51R,56L,56R	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	11119-101-104
DR68L,68R,74,76	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	11119-101-103
DR81R	2007-000307	R-CHIP;10OHM,1%,1/10W,DA,TP,2012	
DR78L,78R	2007-000395	R-CHIP;150KOHM,5%,1/10W,DA,TP,2012	11119-101-154
DR69L,69R	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	11119-101-153
DR61L,61R,80	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	11119-101-222
DR52L,52R,62L,62R	2007-000565	R-CHIP;220KOHM,5%,1/10W,DA,TP,2012	11119-101-224
DR65L,65R	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	11119-101-221
DR73,75,5	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	11119-101-223
DR54L,54R	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	11119-101-273
DR57L,57R	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	11119-101-332
DR66L,66R,70L,70R	2007-000710	R-CHIP;3.9KOHM,5%,1/10W,DA,TP,2012	11119-101-392
DR64L,64R,79L,79R DR67R	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	11119-101-333
DR58L,58R,60L,60R,72 DR77	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	11119-101-472
DR55L,55R	2007-001024	R-CHIP;560KOHM,5%,1/10W,DA,TP,2012	11119-201-564
DR63L,63R	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	11119-101-563
DR71L,71R	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	11119-101-682
DR53L,53R	2007-001216	R-CHIP;82OHM,5%,1/10W,DA,TP,2012	11119-201-820
DSR4	2103-000171	VR-SEMI;10KOHM,30%,1/10W,TOP	11249-102-034
DSR1L,1R	2103-000290	VR-SEMI;20KOHM,30%,1/10W,TOP	11249-102-044
DSR3	2103-000341	VR-SEMI;2KOHM,30%,1/10W,TOP	11249-102-104
DSR2L,2R	2103-000461	VR-SEMI;50KOHM,30%,1/10W,TOP	11249-102-064
DC16L,16R	2201-000470	C-CERAMIC,DISC;330PF,10%,50V,SL,8X4	11407-018-331
DC10	2201-000693	C-CERAMIC,DISC;8PF,5%,50V,NPO,5X3,5	11407-057-809
DC15	2202-000824	C-CERAMIC,MLC-AXIAL;6.8PF,10%,50V,C	11449-118-689
DC67,70L,70R	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,201	11129-004-103
DC52L,52R	2203-000295	C-CERAMIC,CHIP;10PF,5%,50V,NPO,2012	11129-009-100
DC58L,58R,62L,62R	2203-000374	C-CERAMIC,CHIP;15NF,5%,50V,X7R,2012	11129-004-153
DC69	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,20	11129-004-222
DC55L, 55R,63L,63R	2203-000595	C-CERAMIC,CHIP;220PF,5%,50V,NPO,201	11129-001-221
DC68,73L,73R	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,201	11129-004-223
DC60L,60R	2203-000727	C-CERAMIC,CHIP;3.9NF,10%,50V,X7R,20	11129-004-392
DC71L,71R	2203-000787	C-CERAMIC,CHIP;330PF,5%,50V,NPO,201	
DC65L,65R	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20	
DC59L,59R,64L,64R	2203-000953	C-CERAMIC,CHIP;470PF,5%,50V,NPO,201	11129-004-471
DC54,61L,61R,72,74L,74R	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,201	

Location No.	New Code No.	Description Specification	Old Code No.
DC57L,57R	2203-001036	C-CERAMIC,CHIP;5.6NF,10%,50V,X7R,20	
DC75L,75R	2203-001058	C-CERAMIC,CHIP;560PF,5%,50V,NPO,201	11129-019-561
DC53L,53R	2203-001135	C-CERAMIC,CHIP;680PF,5%,50V,SL,2012	
DC66L,66R	2203-001214	C-CERAMIC,CHIP;8.2NF,10%,50V,X7R,20	11129-004-822
DC56L,56R	2203-001611	C-CERAMIC,CHIP;22PF,5%,50V,NPO,2012	
DC9	2301-000442	C-FILM,PEF;4.7NF,10%,50V,5.5X7X3MM,	
DC3L,3R,13L,13R,7	2401-000419	C-AL;10UF,20%,16V,GP,5X11,5,-	
DC1L,1R,5,6	2401-000907	C-AL;22UF,20%,16V,GP,5*11,2MM,	11608-103-223
DC2L,2R	2401-001954	C-AL;4.7UF,20%,50V,GP,5X11MM,5,TP	
DC4L,4R,11,12,14,17,18	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,5,TP	
DL6	2701-000298	INDUCTOR-AXIAL;470UH,10%,4.2X9.8MM	12429-070-130
DWA1	3708-000219	CONNECTOR-FPC/FC/PIC;21P,1.25MM,STR	B6010-0972
DWA5	3708-000447	CONNECTOR-FPC/FC/PIC;13P,1.5MM,STRA	B6010-0399
DWA4	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5MM	13349-512-561
DWA2,3	3711-003107	CONNECTOR-HEADER;BOX,3P,1R,2.5MM,ST	
DR67L	61048-177-333	R-CARBON;RD 1/8 T 333-J	
DIC3	AH14-10007J	IC;UPC1297CA,DIP,STICK HX PRO	
DL2L,2R	AH26-10002X	COIL-TRAP;KS940830-05,BIAS-TRAP,30D	12429-206-102
DL3L,3R	AH27-10001D	COIL-CHOKE;5.6MH,K,Q80,-,-,-,-,-	12429-010-210
DL4	AH27-80060D	COIL-OSC;126QN-K5274YCT,-,105KHZ BI	
DL5L,5R	AH27-80060E	COIL-OSC;126QN-K5275ACM,-,HX-PRO	
DW1	AH39-20557A	LEAD CONNECTOR-ASSY;-,EHR,51088,5P,	
	AH90-40447A	ASSY-FLT PCB;MM-S1000,FLT	
FD1,2	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
FR4,5	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X	11018-877-122
FR3	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X	11018-877-152
FR2	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X	11018-877-182
FR1	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X	11018-877-222
FJW51,52,53,54,55	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	11119-101-000
FR51	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	11119-101-104
FR52	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	11119-101-103
FR53,54,55	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	11119-101-102
FR56	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	11119-101-223
FC51,53	2201-000565	C-CERAMIC,DISC;47nF,20%,50V,Y5V,12.	11417-344-473
FC7	2202-000781	C-CERAMIC,MLC-AXIAL;100PF,10%,50V,Y	11449-518-101
FC54,55	2203-000239	C-CERAMIC,CHIP;100PF,5%,50V,NPO,201	11129-009-101
FC52	2203-000818	C-CERAMIC,CHIP;33PF,5%,50V,NPO,2012	11129-008-330
FC4	2401-000244	C-AL;100UF,20%,10V,GP,6.3*7,2.5MM,T	11608-152-104
FC1	2401-001474	C-AL;47UF,20%,10V,GP,6.3*7,2.5MM,TP	11608-152-470
FC5	2401-001572	C-AL;47UF,20%,50V,GP,6.3*11,2.5MM,	11608-106-470
FC2,6	2401-001919	C-AL;2.2UF,20%,50V,-,4X7MM,5,TP	
FC3	2401-001931	C-AL;220NF,20%,50V,-,4X7MM,5,TP	
FB1,2	3301-000325	CORE-FERRITE BEAD;AB,3.2X2.5X1.3MM,	B1144-0034
FSW1,2,3,4,5,6	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X	13559-901-100
FAW1	3711-000606	CONNECTOR-HEADER;BOX,11P,1R,2.0MM	13349-119-110
FJW1,2,3,4,5,6,7	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4MM,	
V,F,DISPLAY	AH07-20002P	V.F.DISPLAY;SVA-12MM06,-,-,AUDIO	A4153-0115
FIC1	AH14-10007K	IC-VFD;LC75710,QFP,	
R-EYE	AH59-60001J	MODULE-REMOCON;GP1U271R,38KHZ,-,	B1294-0043
	AH61-20381A	HOLDER-FLT;-,ABS,94HB,BLK,-,MM-S100	

Location No.	New Code No.	Description Specification	Old Code No.
AH90-40448A	**ASSY-POWER PCB;MM-S1000,POWER**		
PSC1,2	2201-000520	C-CERAMIC,DISC;4.7NF,+80-20%,400VAC	11469-501-070
FU2	3601-000207	FUSE-FERRULE;250V,1A,TIME LAG,GLASS	14709-241-200
FUC1,2	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM	13164-101-913
PSW1	3722-000337	JACK-AC POWER;2P,-,NI,BLK,#16~22	13359-010-110
PSL1,2	AH27-10001F	COIL-CHOKE;27UH,K,Q30,-,-,DR(6.5*7.	12429-010-330
PSW2	AH60-40027A	PIN-GT;D2.35,L14.2,-,-,	13349-442-010
AH90-40449A	**ASSY-TERMINAL PCB;MM-S1000,TERMINAL**		
OD1,2,3,4	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
OR3,4	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	11119-101-102
OR1,2	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	11119-101-473
CWA1L,2L	3711-000190	CONNECTOR-HEADER;1WALL,2P,1R,7.92MM	13349-156-020
OWA1	3711-003108	CONNECTOR-HEADER;BOX,7P,1R,2.5MM,ST	
OWA3	3722-000376	JACK-RCA;4P/2C,3.5MM,SN,BLK,#16~22	13339-544-040
OWA2	AH37-20001S	JACK-ANT TERMINAL;SP-031S,BLK	
AH90-10728E	**ASSY-MAIN PCB;S1000,CE**		
AD1L,1R,3L,3R,4,5 ID3,4,5,6,7,8 MD1,2,RD3,4,8 UD1,2,14,16,17	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
RD7,9,10,11,12,13 RD14,15,16,17,18 RD19,20,21,22,23,71 UD8,9,10,13,15	0402-000125	DIODE-RECTIFIER;1N4001,50V,1A,DO-41	A4104-0001
RD50,51	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-4	A4104-0053
RD6	0402-000157	DIODE-RECTIFIER;1N5402,200V,3A,DO-2	12169-209-260
RD1,2	0402-000450	DIODE-BRIDGE;PBL403,200V,4.0A,DIP-4	12169-219-330
AZD1	0403-000352	DIODE-ZENER;UZ4.7BM,4.7V,4.4-5.0V,5	12169-403-200
HZD1	0403-000357	DIODE-ZENER;UZ5.6BM,5.6V,5.4-5.8V,5	12169-404-130
ZZD1	0403-000365	DIODE-ZENER;UZ6.8BSB,6.8V,6.52-6.79	12169-404-810
ZZD2	0403-000369	DIODE-ZENER;UZ8.2BM,8.2V,7.9-8.5V,5	12169-403-290
FZD1	0403-000372	DIODE-ZENER;UZ9.1BM,9.1V,8.5-9.6V,5	12169-403-320
RZD3	0403-000379	DIODE-ZENER;UZP12B,12V,11.4-12.6V,1	12169-403-910
RZD5	0403-000389	DIODE-ZENER;UZP30B,30V,28-33V,1W,DO	A4106-0121
RZD4	0403-000392	DIODE-ZENER;UZP4.7B,4.7V,4.4-5.0V,1	12169-403-210
MZD1	0403-000396	DIODE-ZENER;UZP6.8B,6.8V,6.4-7.2V,1	12169-404-100
AQ6,RQ3L,3R	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,6	12149-301-050
AQ7,HQ5,RQ1	0501-000294	TR-SMALL SIGNAL;KSA708-Y,PNP,800MW,	12149-101-560
AQ5,8	0501-000303	TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,	12149-101-520
AQ2L,2R	0501-000331	TR-SMALL SIGNAL;KSC1009-Y,NPN,800MW	12139-301-310
IQ1,2	0501-000392	TR-SMALL SIGNAL;KSC838-O,NPN,250MW,	12149-301-860
AQ1L,1R,3,4,FQ2L,2R RQ2,UQ7	0501-000398	TR-SMALL SIGNAL;KSC945-Y,NPN,250MW,	12149-301-900
RIC2,HEAT-SINK	0502-000424	TR-POWER;2SB1566-F,PNP,2W,TO-220FN,	B4052-0086
DQ23L,23R	0504-000121	TR-DIGITAL;KSR1007,NPN,300MW,22K-47	12159-301-800
DQ21L,21R,22L,22R,FQ3,4 UQ1,2,3,4,5,6	0504-000122	TR-DIGITAL;KSR1009Y,NPN,300MW,4.7K,	12159-301-790
SQ2	0504-000146	TR-DIGITAL;KSR2004,PNP,300MW,47K-47	12159-301-760

Location No.	New Code No.	Description Specification	Old Code No.
SQ1,3	0504-000203	TR-DIGITAL;KSR1004,NPN,300MW,47K-47	
DQ24,FQ1,AQ10	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K-22	
ZIC1	1003-000293	IC-MOTOR DRIVER;LB1649,DIP,14P,-,-	
DIC9,FIC2,SIC2	1201-000163	IC-OP AMP;4560,SOP,8P,150MIL,DUAL,1	12119-401-300
AIC1	1201-000344	IC-POWER AMP;4181,SIP,18P,-,DUAL,-	12119-205-040
DIC8	1201-000357	IC-PREAMP;3312,SIP,10P,-,-,55V/MV,P	12119-102-050
SIC1	1201-000463	IC-OP AMP;074,SOP,14P,196MIL,SINGLE	
RIC1	1203-000166	IC-POSI.ADJUST REG.;3950,SIP,12P,-	B4008-1198
DIC7	1204-000134	IC-DNR PROCESSOR;KA2271B,DIP,16P,-	12109-323-990
SIC3	1205-000529	IC-SWITCH;LC4966,DIP,14P,-,-,40V,30	
THM1	1404-000172	THERMISTOR-NTC;100OHM,-,-,-,BK	
RR2	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,1.8X3	11018-877-391
DR112L,112R	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-153
RR10,11	2001-000020	R-CARBON(S);22OHM,5%,1/2W,AA,TP,2.4	11018-377-220
MR6	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.	11018-377-101
AR8L,8R,9L,9R	2001-000052	R-CARBON(S);3.3KOHM,5%,1/2W,AA,TP,2	11018-377-332
RR8	2001-000058	R-CARBON;5.6KOHM,5%,1/4W,AA,TP,2.4X	11018-277-562
RR12	2001-000066	R-CARBON(S);10KOHM,5%,1/2W,AA,TP,2.	11018-377-103
RR14	2001-000071	R-CARBON;22KOHM,5%,1/4W,AA,TP,2.4X6	11018-277-223
HR9	2001-000109	R-CARBON(S);470OHM,5%,1/2W,AA,TP,2.	11018-377-471
RR9	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X	11018-877-152
AR13L,13R,DR102,107L DR107R,MR7,UR2	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X	11018-877-104
DR110,SR34,35	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3	11018-877-101
AR18,21,HR12,UR32 RR17,UR7,8,9 UR10,11,12,13,14 UR18,19,20,FR6R	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-103
MR10	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-123
FR11L,11R	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-183
AR3L,3R,11L,11R HR1,2,3,4 UR21,22 UR50,51,52	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.	11018-877-102
AR19,23,RR16L UR53,54	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X	11018-877-222
UR53,54			
AR5L	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X	11018-877-272
AR10L,10R,SR30	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3	11018-877-221
UR15,16,17	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-223
DR118,MR4	2001-000527	R-CARBON;22OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-220
RR3	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-273
HR13	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X	11018-877-332
MR11L,11R	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X	11018-877-472
UR1,RR50	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.	11018-877-470
HR14	2001-000802	R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X	
RR4	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X	11018-877-682
RR7	2001-000975	R-CARBON;8.2KOHM,5%,1/4W,AA,TP,2.4X	11018-277-822
SR23	2001-001000	R-CARBON;82KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-823
AR22,24	2001-001088	R-CARBON(S);1KOHM,5%,1/2W,AA,TP,2.4	11018-377-102

Location No.	New Code No.	Description Specification	Old Code No.
RR1	2001-001144	R-CARBON(S);4.7KOHM,5%,1/2W,AA,TP,2	11018-377-472
AR17L,17R	2001-001146	R-CARBON(S);4.7OHM,5%,1/2W,AA,TP,2.	11018-377-479
FR12	2001-001153	R-CARBON(S);47OHM,5%,1/2W,AA,TP,2.4	11018-377-470
RR13	2003-000732	R-METAL OXIDE(S);560OHM,5%,1W,AA,TP	11048-477-561
AR12L,12R	2006-000266	R-CEMENT;0.22OHM,5%,7W,CA,BK,9.5X35	11039-757-228
SR15,16	2007-000001	R-CHIP;68KOHM,5%,1/10W,DA,TP,2012	11119-101-683
IR31,FC6L,6R	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	11119-101-000
AR6L,6R,SR8,17,18	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	11119-101-561
DR104L,104R	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012	11119-101-122
SR19	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012	11119-101-152
AR2L,2R,DR108L,108R,OR4	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	11119-101-104
DR111L,111R,119,120,121			
FR7L,7R,SR24,25			
DR124			
DR101	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	11119-101-101
AR20,FR6L	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	11119-101-103
HR5,7,22,23			
IR8,UR31			
MR14	2007-000308	R-CHIP;10OHM,5%,1/10W,DA,TP,2012	11119-101-100
SR11,22	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012	11119-101-124
FR8L,8R	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	11119-101-123
DR123	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	11119-101-153
SR6,27	2007-000457	R-CHIP;18KOHM,5%,1/10W,DA,TP,2012	11119-101-183
DR122,MR2	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	11119-101-102
HR11,IR9,OR1			
RR16R	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	11119-101-222
DR117	2007-000498	R-CHIP;2.2MOHM,5%,1/10W,DA,TP,2012	11119-101-225
AR5R,DR116L,116R	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	11119-101-272
IR6,SR9			
SR31	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	11119-101-221
AR14,DR105	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	11119-101-223
SR12,20,28,29,HR18			
IR4,10	2007-000593	R-CHIP;22OHM,5%,1/10W,DA,TP,2012	11119-101-220
SR26	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	11119-101-273
DR113L,113R,MR12L,12R	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	11119-101-332
MR5			
MR8L,8R,SR14,DR103L	2007-000710	R-CHIP;3.9KOHM,5%,1/10W,DA,TP,2012	11119-101-392
DR103R,SR2L,2R			
SR3L,3R,4L,4R,5,7	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	11119-101-333
IR30			
DR125	2007-000778	R-CHIP;33OKOHM,5%,1/10W,DA,TP,2012	11119-101-334
IR3,7,12	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012	11119-101-391
DR115L,115R	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012	11119-101-393
AR1L,1R,15,16	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	11119-101-472
FR13L,13R			
MR9L,9R,OR3			
SR1L,1R,MR1			
DR106,SR13,21,32	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	11119-101-473
SR33,40L,40R			
SR33,40L,40R			
IR5,11,13	2007-000947	R-CHIP;47OHM,5%,1/10W,DA,TP,2012	11119-101-470

Location No.	New Code No.	Description Specification	Old Code No.
DR109L,109R,UR6	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	11119-101-562
AR4L,4R,FR10L,10R,UR33	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	11119-101-563
FR14L,14R			
MR3-1	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	11119-101-682
HR10	2007-001118	R-CHIP;680OHM,5%,1/10W,DA,TP,2012	11119-101-681
DR114L,114R	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	11119-101-822
SR10	2007-001208	R-CHIP;82KOHM,5%,1/10W,DA,TP,2012	11119-101-823
FR15L,15R			
AFR1,2	2008-000121	R-FUSIBLE;100OHM,5%,1/4W,AA,TP,2.6X	11058-223-101
MVR1	2103-000492	VR-SEMI;5KOHM,30%,1/10W,TOP	11249-102-024
HC5	2201-000247	C-CERAMIC,DISC;15PF,5%,50V,NPO,4X3.	11407-057-150
UC7,8	2201-000273	C-CERAMIC,DISC;18PF,5%,50V,NPO,5.0X	11407-057-180
UC9,10,HC6	2201-000423	C-CERAMIC,DISC;27PF,5%,50V,NPO,5.0X	11407-057-270
RC6,7	2201-000520	C-CERAMIC,DISC;4.7NF,+80-20%,400VAC	11469-501-070
AC14	2201-000783	C-CERAMIC,DISC;100NF,+80%,-20%,50V,	11417-104-104
UC16	2202-000781	C-CERAMIC,MLC-AXIAL;100PF,10%,50V,Y	11449-518-101
ZC4,MC3,UC71,MC10	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,0.3,50V,Y5	
UC72	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5	
DC122,HC9	2203-000239	C-CERAMIC,CHIP;100PF,5%,50V,NPO,201	11129-009-101
UC51			
IC4,FC32,UC53	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,201	11129-004-103
MC5	2203-000408	C-CERAMIC,CHIP;180PF,5%,50V,NPO,201	11129-008-181
HC1,SC1L,1R	2203-000595	C-CERAMIC,CHIP;220PF,5%,50V,NPO,201	11129-001-221
IC2,3,UC2	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,201	11129-004-223
DC111L,111R	2203-000727	C-CERAMIC,CHIP;3.9NF,10%,50V,X7R,20	11129-004-392
MC17L,17R,FC5L,5R	2203-000802	C-CERAMIC,CHIP;33NF,10%,50V,X7R,201	11129-001-333
SC5	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20	
MC26L,26R			
MC20			
FC7L,7R,UC5	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5	
AC2L,2R,4L,4R	2203-000953	C-CERAMIC,CHIP;470PF,5%,50V,NPO,201	11129-004-471
IC5,6,7,MC1,23	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,201	
UC4,12,13,14,HC2			
ZC2,3,5,OC1,DC123			
FC4L,4R	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,20	11129-004-682
MC19	2203-001135	C-CERAMIC,CHIP;680PF,5%,50V,SL,2012	
OC2	2203-001517	C-CERAMIC,CHIP;15PF,5%,50V,NPO,2012	
UC52	2203-001524	C-CERAMIC,CHIP;47PF,5%,50V,NPO,2012	
DC113L,113R,HC10,MC8	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012	
SC6L,6R			
DC112L,112R	2203-001550	C-CERAMIC,CHIP;1.2NF,10%,50V,X7R,20	
AC10L,10R	2301-000375	C-FILM,PEF;100NF,5%,50V,11X12.5X6.5	11505-713-104
UC6,11,20,21	2401-000240	C-AL;100UF,20%,10V,GP,6*11MM,5MM,TP	11608-102-104
FC21,MC2,4,9	2401-000419	C-AL;10UF,20%,16V,GP,5X11,5,-	
MC16L,16R,ZC6			
AC11,13	2401-000475	C-AL;10UF,20%,50V,GP,5*11,2MM,	11608-106-100
DC105,FC19L,19R,23L	2401-000759	C-AL;220NF,20%,50V,GP,5X11,2MM,	11608-106-221
FC23R,25L,25R,UC1			
RC5,11,12,14,16	2401-000907	C-AL;22UF,20%,16V,GP,5*11,2MM,	11608-103-223
AC9	2401-000968	C-AL;22UF,20%,50V,BP,8X11.5,-,-	11608-206-220
DC103,MC22,RC10	2401-001022	C-AL;3.3UF,20%,50V,GP,5*11,2MM,	11608-106-332

Location No.	New Code No.	Description Specification	Old Code No.
FC27	2401-001364	C-AL;470UF,20%,16V,GP,10X12MM,5MM,T	11608-103-471
HC11,MC14	2401-001465	C-AL;47UF,20%,10V,GP,5*11,2MM,	11608-102-473
DC117L,121	2401-001511	C-AL;47UF,20%,16V,GP,6X7,5,-	
AC7L,7R	2401-001572	C-AL;47UF,20%,50V,GP,6.3*11,2.5MM,	11608-106-470
DC107L,107R	2401-001645	C-AL;680NF,20%,50V,GP,5*11,2MM,	11608-106-688
DC114,115,120	2401-001893	C-AL;100UF,20%,16V,-,6.3X7MM,5,TP	
AC6L,6R,RC4	2401-001895	C-AL;100UF,20%,16V,GP,6.3X11MM,2.5M	
ZC1	2401-001904	C-AL;10UF,20%,16V,-,4X7MM,5,TP	
MC11,13,18,RC13,15	2401-001912	C-AL;1UF,20%,50V,GP,5X11MM,2MM,BK	
DC108L	2401-001919	C-AL;2.2UF,20%,50V,-,4X7MM,5,TP	
DC109L,110L,110R	2401-001952	C-AL;4.7UF,20%,50V,-,4X7MM,5,TP	
DC116L,116R			
DC106L,106R,109R,118L	2401-001954	C-AL;4.7UF,20%,50V,GP,5X11MM,5,TP	
DC118R,FC31L,31R			
MC15L,15R,SC7L,7R			
SC8L,8R,2L,2R			
FC10L,10R			
AC8L,8R	2401-001967	C-AL;470NF,20%,50V,BP,6X11MM,2MM,BK	
DC104,MC25,SC3L,3R,4	2401-001968	C-AL;470NF,20%,50V,GP,5X11MM,5,TP	
UC3			
DC101,117R,MC21,SC9,10	2401-001975	C-AL;47UF,20%,16V,GP,5X11MM,5,TP	
FC22,DC119			
AC12,RC8,9,81	2401-002168	C-AL;100UF,0.2,50V,GP,10X12.5,5MM,T	
AC1L,1R,3L,3R,DC102	2401-002180	C-AL;2.2UF,0.2,50V,GP,5X11,5MM,TP	
DC108R,HC8,AC15			
FC24L,24R			
RC1,2,3	2401-002258	C-AL;4700UF,20%,50V,GP,22X40MM,5MM,	
BACK-UP	2409-000123	C-EDL;47000UF,4UA,5.5V,-,-,5MM,BK	B1104-0540
FL1,2,3L,3R	2701-000114	INDUCTOR-AXIAL;10UH,10%,2.5X3.4MM	12429-411-100
HX1	2801-000734	CRYSTAL-UNIT;7.2MHZ,50PPM,28-AAM,12	14539-501-140
UX1	2801-001382	CRYSTAL-UNIT;12MHZ,50PPM,28-AAM,10P	A1280-0017
UX2	2801-001394	CRYSTAL-UNIT;32.768KHZ,20PPM,28-AAY	14539-502-350
IFT5	2802-000215	RESONATOR-CERAMIC;19KHZ,+-38HZ,-,7.	14539-504-100
IFT1,7	2903-000106	FILTER-CERAMIC;BP,10.7MHZ+-25KHZ	14529-301-763
IFT3	2903-000148	FILTER-CERAMIC;BP,450KHZ+-1KHZ	A1243-0049
DLPF11L,11R	2909-000210	FILTER-LC;LP,-,1DB,30DB/19KHZ,50DB/	14529-414-050
RELAY	3501-000125	RELAY-MINIATURE;12V,500MW,5A,DPST,1	14729-501-050
DWA6	3708-000219	CONNECTOR-FPC/FC/PIC;21P,1.25MM,STR	B6010-0972
OWA1L,1R	3711-000190	CONNECTOR-HEADER;1WALL,2P,1R,7.92MM	13349-156-020
RWA2	3711-000596	CONNECTOR-HEADER;BOX,10P,1R,2MM,STR	13349-119-100
RWA3	3711-000606	CONNECTOR-HEADER;BOX,11P,1R,2.0MM,S	13349-119-110
UWA1	3711-000724	CONNECTOR-HEADER;BOX,15P,1R,2MM,STR	A6010-0169
AWA2	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5MM,ST	13349-512-561
RWA4L,4R	3711-000827	CONNECTOR-HEADER;BOX,2P,1R,2MM,	13349-119-020
ZWA1	3711-001018	CONNECTOR-HEADER;BOX,5P,1R,2MM	13349-119-050
ZWA2	3711-001062	CONNECTOR-HEADER;BOX,6P,1R,2MM	13349-119-060
FWA1	3711-001137	CONNECTOR-HEADER;BOX,8P,1R,2MM	13349-119-080
RWA1	3711-003112	CONNECTOR-HEADER;BOX,8P,1R,2.5MM,-,	
FM	3722-000372	JACK-RCA;2P/1C,3.5MM,SN,BLK,#16~22	A3040-0179
A-A	3811-000123	WIRE-PVC CU;BCWA,300V,200MM,7/0.16M	13049-011-120

Location No.	New Code No.	Description	Specification	Old Code No.
RR15	61048-177-333	R-CARBON;RD 1/8 T 333-J		
AR7L,7R	61048-177-563	R-CARBON;RD 1/8 T 563-J		
UIC1	AH09-10061B	IC-MASK ROM;LC866224V-5082		B4000-0017
DIC6	AH14-10002H	IC;LA2010,-,		
FIC1	AH14-10006X	IC;TEA6320T,SOP,STICK		
HIC1	AH14-10007G	IC;LC72131,DIP,STICK PLL		
MIC1	AH14-10007H	IC;LA1836,DIP,STICK IF+MPX		
LPF1L,1R	AH26-10001A	TRANS-IF;FV-AD-BASE19K/38K,LOW PASS		12450-304-040
IFT2	AH26-10001E	TRANS-IF;KS940228-09,-,-,7.6X12.0,-		12619-030-005
IFT4	AH26-10020A	TRANS-DET;-,7KLL,DET,-,7.8MM,91PF,1		
MW ANT/OSC	AH27-80060C	COIL-OSC;RBW07VB-K5012,350•ÏH,MW(RF		
AL1L,1R	AH27-90001B	COIL-SPRING;,2.2UH,-,-,SPRING		12429-060-031
FAN-DC	AH31-10020A	FAN-DC;D0620B-12M,12VDC/0.16A,		A3070-0112
RWA4	AH39-20019M	LEAD-CONNECTOR ASS'Y;5051,5395,3P,2		16439-0124-00
MWA1	AH39-20558A	LEAD CONNECTOR-ASSY;-,5264,51088,7P		
TO FRONT	AH39-50001N	LEAD-FASTEN;RING,1007#24,250MM,BLK		13059-202-253
UD6	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5		
IR2	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3		11018-877-103
IR1	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012		11119-101-103
IC1	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5		
FM-PACK	AH40-10001T	TUNER;FE415-G11,-,75OHM		B1290-0001
AH91-10250A	ASSY-RACK;MM-S1000,DOM			
MDWA1,2	3711-000826	CONNECTOR-HEADER;BOX,2P,1R,2MM,ANGL		13349-139-020
MDW1	3711-000988	CONNECTOR-HEADER;BOX,5P,1R,2.0MM,AN		13349-139-050
	AH39-20555A	LEAD CONNECTOR-ASSY;-,51004,-,2P,35		
	AH39-20556A	LEAD CONNECTOR-ASSY;-,51004,-,2P,10		
	AH39-20559R	LEAD CONNECTOR-ASSY;-,51004,51004,5		
MWWA1,2	3711-000826	CONNECTOR-HEADER;BOX,2P,1R,2MM,		13349-139-020
MWW1	3711-001061	CONNECTOR-HEADER;BOX,6P,1R,2MM		13349-139-061
	AH39-20556A	LEAD CONNECTOR-ASSY;-,51004,-,2P,10		
	AH39-20559N	LEAD CONNECTOR-ASSY;-,51004,-,2P,15		
	AH39-20559T	LEAD CONNECTOR-ASSY;-,51004,51004,6		
MMS1000CD	CD PACK ASSY;MMS1000CD			
PC1	0604-001005	PHOTO-INTERRUPTER;TR,-,-,DIP-4,BK		
XIC2L,2R	1201-000462	IC-OP AMP;2068,SIP,8P,-,DUAL,120DB,		
XX1	2801-000261	CRYSTAL-UNIT;33.8688MHZ,50PPM,28-AA		A1280-0153
WCW1	3708-001030	CONNECTOR-FPC/FC/PIC;16P,1MM,ANGLE,		
WCW7	3711-000826	CONNECTOR-HEADER;BOX,2P,1R,2MM,		13349-139-020
WCW5,12	3711-000907	CONNECTOR-HEADER;BOX,3P,1R,2MM		13349-119-030
WCW3	3711-002425	CONNECTOR-HEADER;BOX,2P,1R,2.0MM		A6010-1739
WCW2	3711-002426	CONNECTOR-HEADER;BOX,4P,1R,2.0MM		A6010-1740
LAMP1,2,3,4	4713-001016	LAMP-PILOT;6.3V,70MA,-,GRN,-,-,3.9X		
WCW4	AH39-20018R	LEAD-CONNECTOR ASS'Y;51004,35023,15		16439-0103-00
WCW11	AH39-20020A	LEAD-CONNECTOR ASS'Y;51004,35023,3P		16439-0138-00
WCW10	AH39-20020B	LEAD-CONNECTOR ASS'Y;51004,35023,2P		16439-0139-00
WCW6	AH39-20021W	LEAD-CONNECTOR ASS'Y;51004,5295,8P,		16439-0193-00
WIC61	AH62-30048A	HEAT SINK;PBSS,-,T0.8,-,-,-,KCD-11/		11124-0062-00

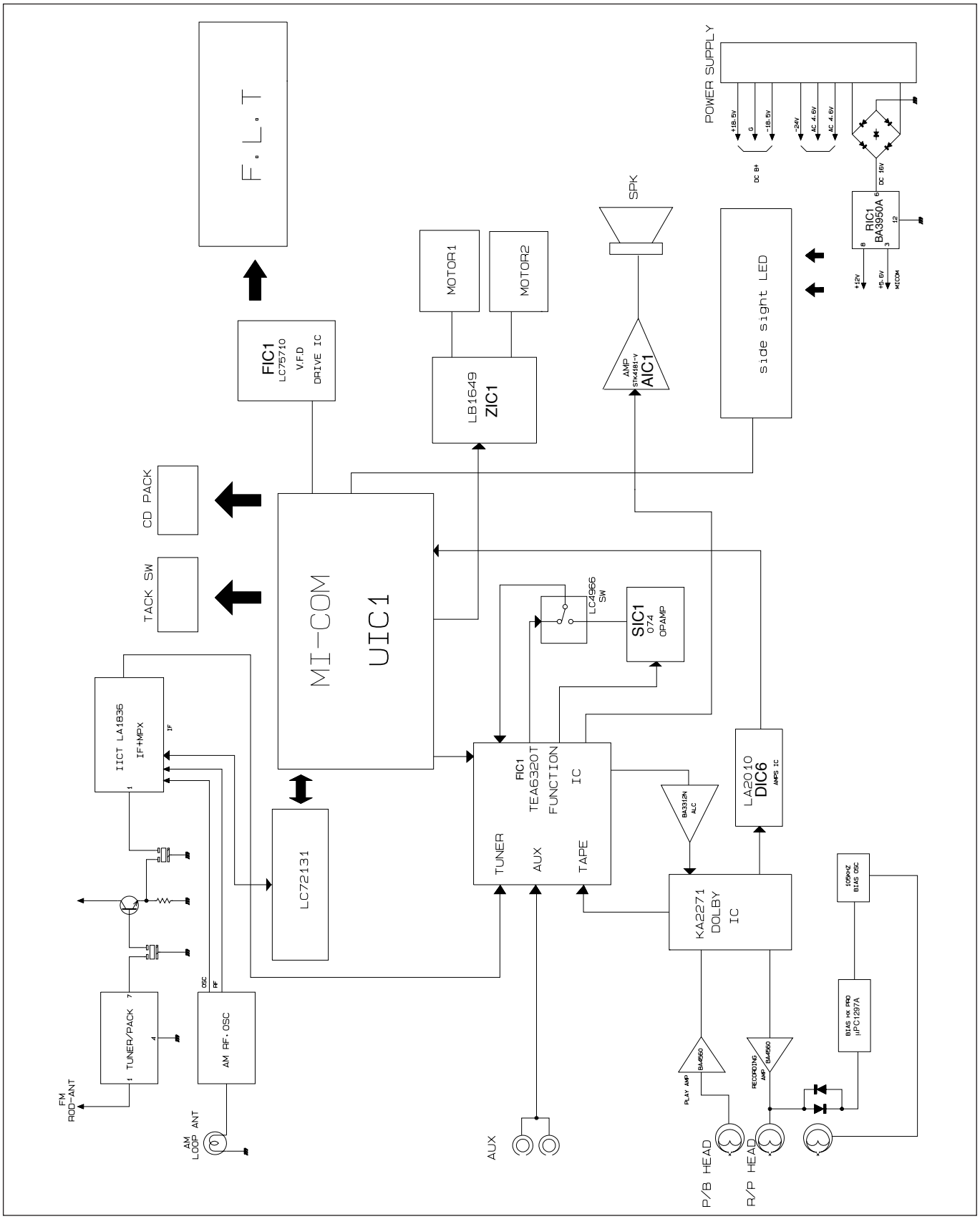
Location No.	New Code No.	Description Specification	Old Code No.
	AH90-10716Y	ASSY-PCB CD;MMS1000,-	
WD1	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
WQ93	0501-000010	TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,6	12149-301-050
WQ94	0501-000303	TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,	12149-101-520
WQ1	0501-000323	TR-SMALL SIGNAL;KSB564Y,PNP,800MW,T	12149-202-050
WQ61	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO	
WQ91,92	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K-22	12159-301-780
WIC41	0904-000158	IC-DSP;9283,-,QFP,80P,-,16.9344MHZ,	A4012-0292
XIC1	1002-001014	IC-D/A CONVERTER;CXD2565M,18/16BIT,	
WIC61	1003-000179	IC-MOTOR DRIVER;KA9258D,SOP,28P,-,S	
WIC01	1204-001041	IC-ASP;KA9220B,QFP,80P,-,PLASTIC,6V	
WR93	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-103
WR91	2001-000323	R-CARBON;120OHM,5%,1/4W,AA,TP,2.4X6	11018-277-121
WR92	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-123
WR94	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.	11018-877-102
XR1	2007-000001	R-CHIP;68KOHM,5%,1/10W,DA,TP,2012	11119-101-683
WR10,27	2007-000068	R-CHIP;470KOHM,5%,1/10W,DA,TP,2012	11119-101-474
XR7L,7R,8L,8R	2007-000238	R-CHIP;1.5KOHM,1%,1/10W,DA,TP,2012	
WR11,19,21	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	11119-101-104
XR10L,10R	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	11119-101-101
WR3,5	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	11119-101-103
WR25	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012	11119-101-124
WR4,18	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	11119-101-123
WR12,28	2007-000395	R-CHIP;150KOHM,5%,1/10W,DA,TP,2012	11119-101-154
WR14	2007-000444	R-CHIP;180KOHM,5%,1/10W,DA,TP,2012	11119-101-184
WR20	2007-000457	R-CHIP;18KOHM,5%,1/10W,DA,TP,2012	11119-101-183
WR1,17,29,46,31,32,33	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	11119-101-102
WR15	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012	11119-101-105
WR95	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	11119-101-222
WR96	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	11119-101-223
WR22,24,41,XR3L,3R XR4L,4R	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	11119-101-273
WR2	2007-000658	R-CHIP;27OHM,5%,1/10W,DA,TP,2012	
WR7,8,42,43	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	11119-101-332
WR23,26,XR1L,1R,2L,2R	2007-000735	R-CHIP;30KOHM,1%,1/10W,DA,TP,2012	11119-102-303
XR5L,5R,6L,6R	2007-000938	R-CHIP;47KOHM,1%,1/10W,DA,TP,2012	11119-102-473
XR11L,11R	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	11119-101-563
WR16	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	11119-101-822
WR13	2007-001195	R-CHIP;820KOHM,5%,1/10W,DA,TP,2012	11119-101-824
WR9	2007-001213	R-CHIP;82OHM,1%,1/10W,DA,TP,2012	11119-102-820
WR61	2008-000141	R-FUSIBLE;2.2OHM,5%,1/4W,AA,TP,2.6X	11058-277-229
WVR1,2,3,4	2103-000290	VR-SEMI;20KOHM,30%,1/10W,TOP	11249-102-044
XC23	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,5	11449-010-104
WC3,XC8,9	2203-000001	C-CERAMIC,CHIP;5PF,0.5PF,50V,NPO,20	
WC41	2203-000206	C-CERAMIC,CHIP;100NF,10%,50V,X7R,20	11129-014-104
WC12,13,14,22,30,32 WC39,47,50,46	2203-000222	C-CERAMIC,CHIP;100NF,20%,50V,Z5U,20	
XC4,5,6,7,21,22	2203-000222	C-CERAMIC,CHIP;100NF,20%,50V,Z5U,20	
WC10,11,19,29	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,201	11129-004-103
XC24	2203-000295	C-CERAMIC,CHIP;10PF,5%,50V,NPO,2012	11129-009-100
WC5	2203-000335	C-CERAMIC,CHIP;12PF,5%,50V,NPO,2012	11129-001-120

Location No.	New Code No.	Description Specification	Old Code No.
WC21	2203-000417	C-CERAMIC,CHIP;18NF,10%,50V,X7R,201	11129-004-183
WC28	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,20	11129-004-222
WC25	2203-000575	C-CERAMIC,CHIP;220NF,10%,50V,X7R,20	11129-004-224
XC2L,2R,3L,3R	2203-000749	C-CERAMIC,CHIP;30PF,5%,50V,NPO,2012	11129-009-300
WC24	2203-000787	C-CERAMIC,CHIP;330PF,5%,50V,NPO,201	
WC8,18,26	2203-000802	C-CERAMIC,CHIP;33NF,10%,50V,X7R,201	11129-001-333
WC4	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,20	
WC17,20	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5	
WC27	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,20	11129-004-682
XC1L,1R	2203-001246	C-CERAMIC,CHIP;82PF,5%,50V,NPO,2012	
WC1,31	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012	
WC42	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,20	
XC4L,4R	2301-000361	C-FILM,PEF;1.2NF,10%,50V,-,5MM,TP	
XC5L,5R	2301-000445	C-FILM,PEF;4.7NF,5%,50V,5.5X7X3MM,5	
WC2,7,45,XC3	2401-000243	C-AL;100UF,20%,10V,GP,6.3*5,2.5MM,T	11608-152-101
XC1,2,6L,6R	2401-000407	C-AL;10UF,20%,16V,GP,3.5*5,-,TP	11608-173-100
WC6,9	2401-000868	C-AL;220UF,20%,4V,GP,6.3*5,2.5MM,TP	11608-171-221
WC15,16,23	2401-001238	C-AL;4.7UF,20%,25V,GP,3*5,1MM,TP	11608-154-479
WC61,62	2401-001355	C-AL;470UF,20%,10V,GP,8X11.5,5MM,	
WL1,XL1,2,3	2703-000001	INDUCTOR-SMD;10UH,10%,2.5X3.2X2MM	11176-600-050
WB1,2	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,	14049-033-420
WB3,XB1,2,3,5,6	3301-000325	CORE-FERRITE BEAD;AB,3.2X2.5X1.3MM,	B1144-0034
XIC3	AC14-12001G	IC;KA78L05,T,-	
		MAIN OPTION PARTS	
UD6	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
IR2	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3	11018-877-103
IR1	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	11119-101-103
IC1	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5	
FM-PACK	AH40-10001T	TUNER;FE415-G11,-,75OHM	B1290-0001
		MAIN OPTION PARTS	
UD4,6	0401-000101	DIODE-SWITCHING;1N4148,100V,200MA,5	
IR1	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	11119-101-000
FM-PACK	AH40-10025H	TUNER-FM;FTAW501VA,3G,75OHM (OIRT)	

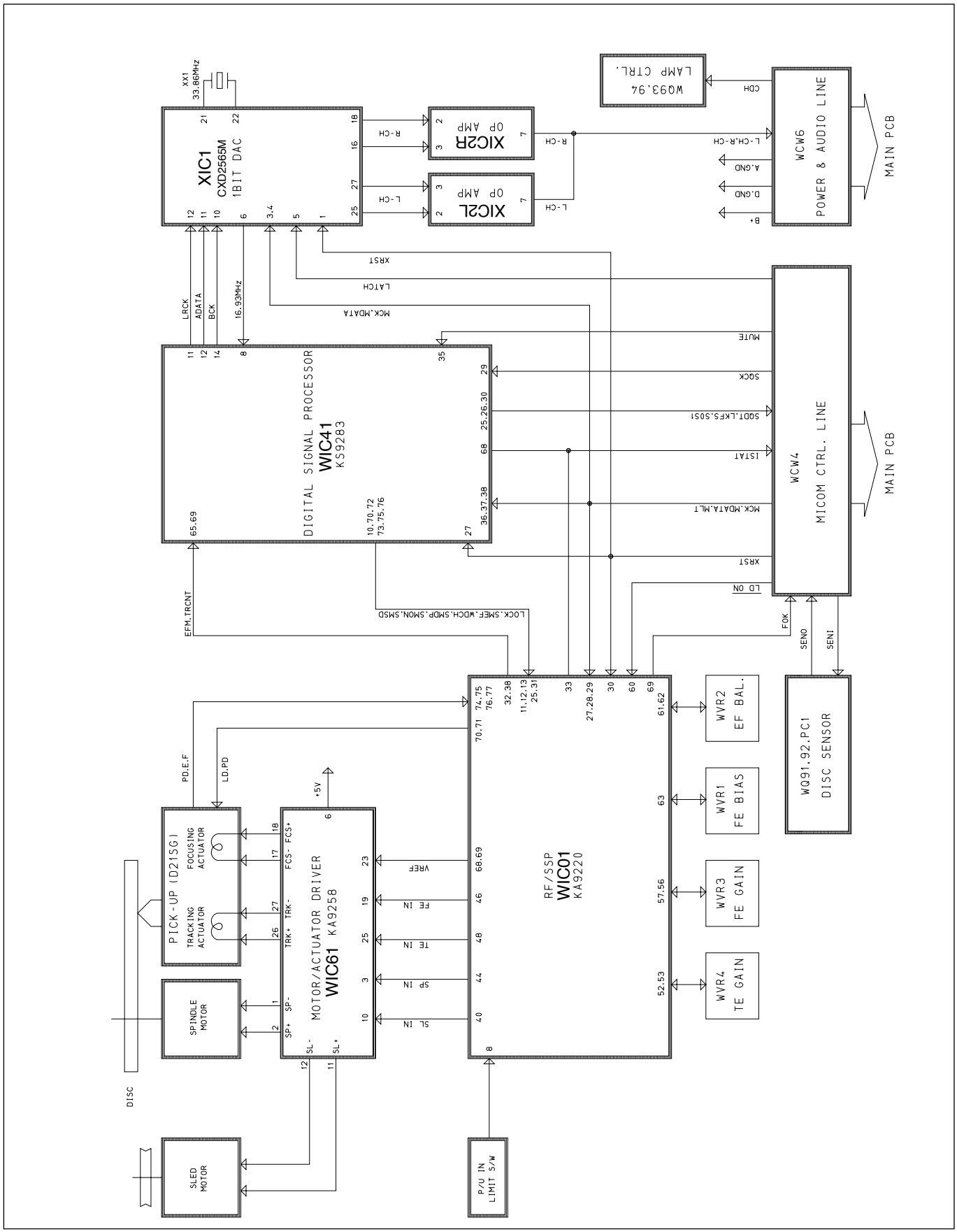
Location No.	New Code No.	Description	Specification	Old Code No.

9. Block Diagrams

9-1 Main



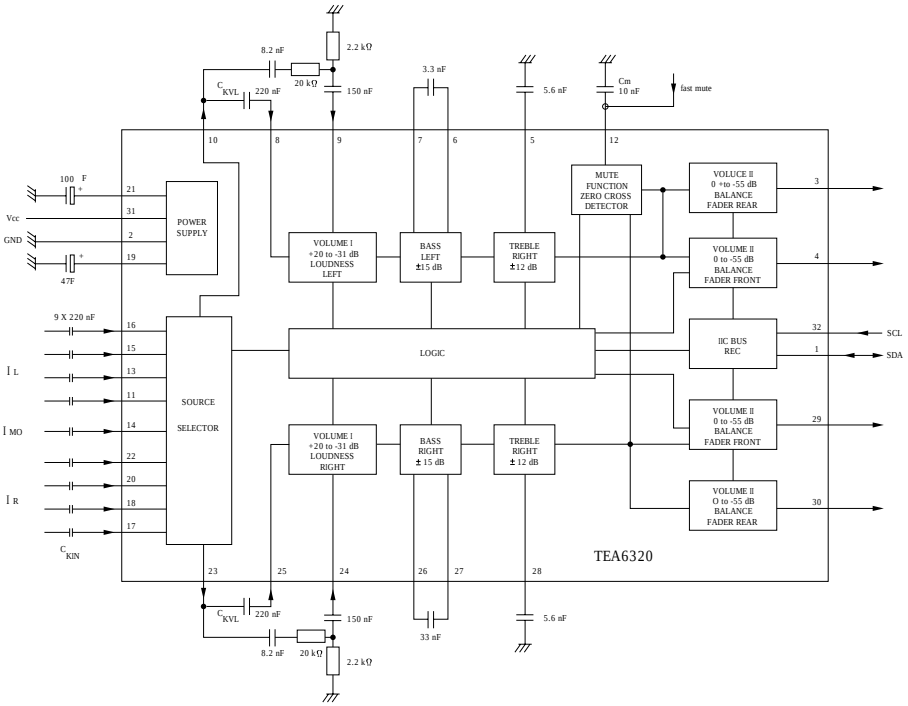
9-2 CD


XIC1
CXD2565M
1BIT DAC
XIC2R
OP AMP
XIC2L
OP AMP
WCW6
POWER & AUDIO LINE
MAIN PCB
W093,94
LAMP CTRL.
WIC41
KS9283
DIGITAL SIGNAL PROCESSOR
WCW4
MICOM CTRL. LINE
MAIN PCB
WIC01
KA9220
RF/SSP
WIC61 KA9258
MOTOR/ACTUATOR DRIVER
PICK-UP (D21SG)
FOCUSING ACTUATOR
TRACKING ACTUATOR
SPINDLE MOTOR
SLED MOTOR
DISC
P/U IN LIMIT S/W
WVR1 FE BIAS
WVR2 EF BAL.
WVR3 FE GAIN
WVR4 TE GAIN
WQ91.92.PC1
DISC SENSOR
XRST
LATCH
MCK,MDATA
MUTE
SOCK
SODT,LRFS,SOSI
ISTAT
MCK,MDATA,MLT
LD ON
FOK
SEN0
SEN1
LOCK,SMEF,WDCH,SMDP,SMON,SMSD
EFM,TRCNT
PD,E,F
LD,PD
+5V
VREF
FE IN
TE IN
SP IN
SL IN

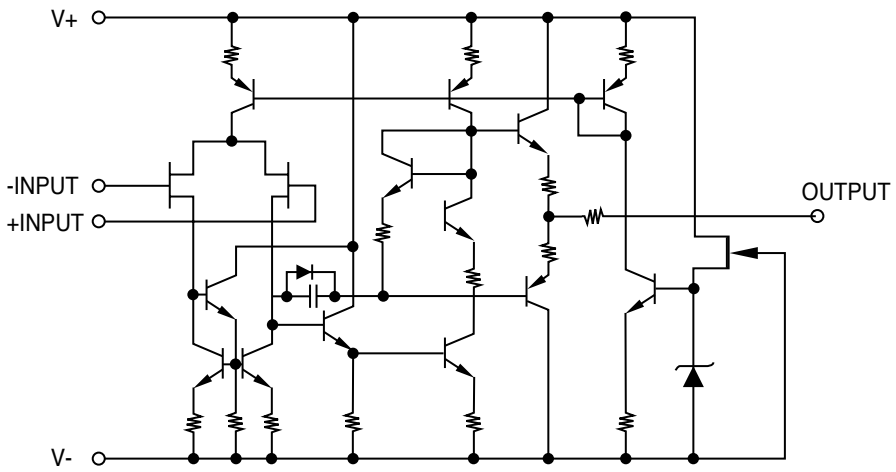
9-3 IC & TR Internal Diagrams

9-3-1 Main

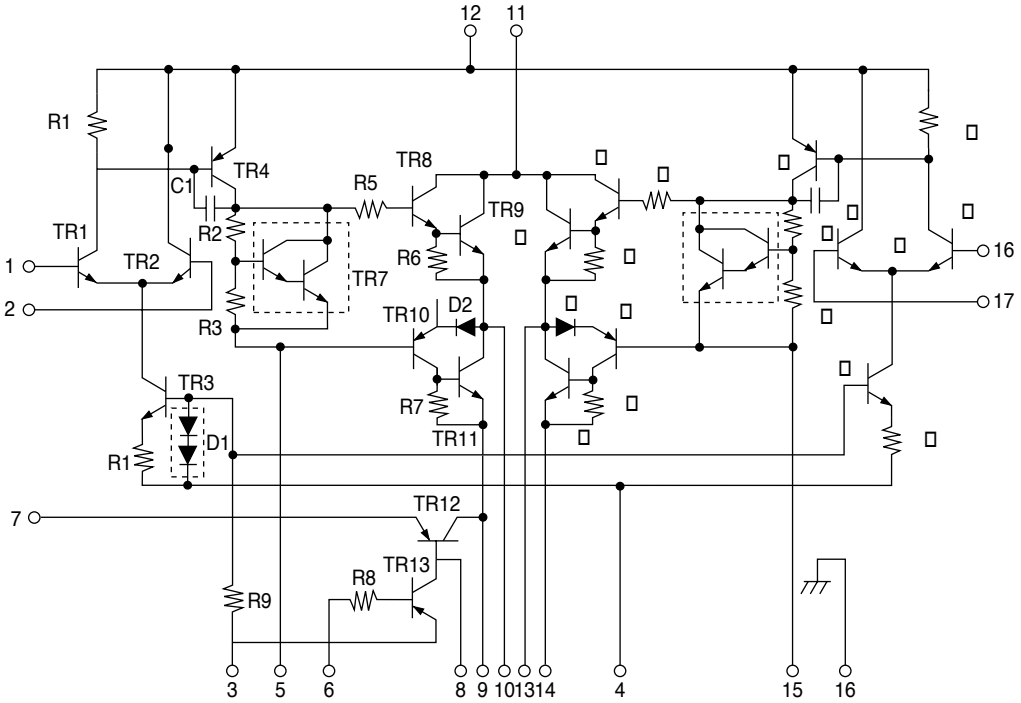
TEA6320T : FIC1



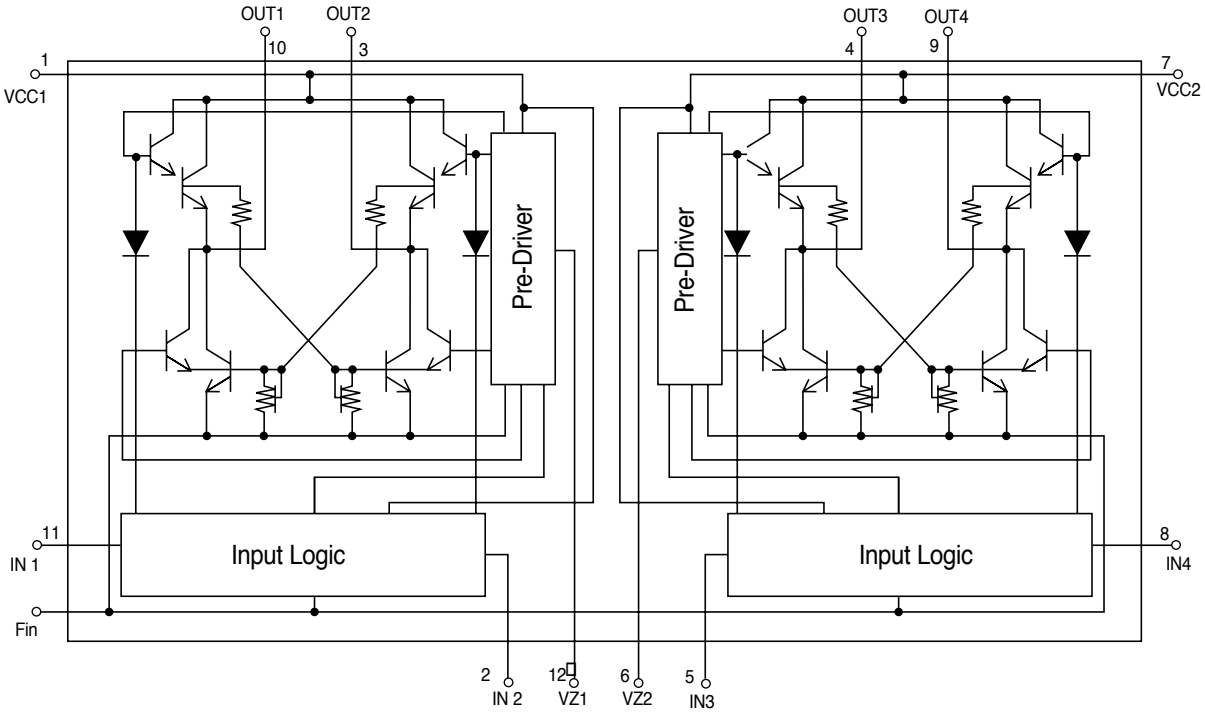
NJM074 : SIC1



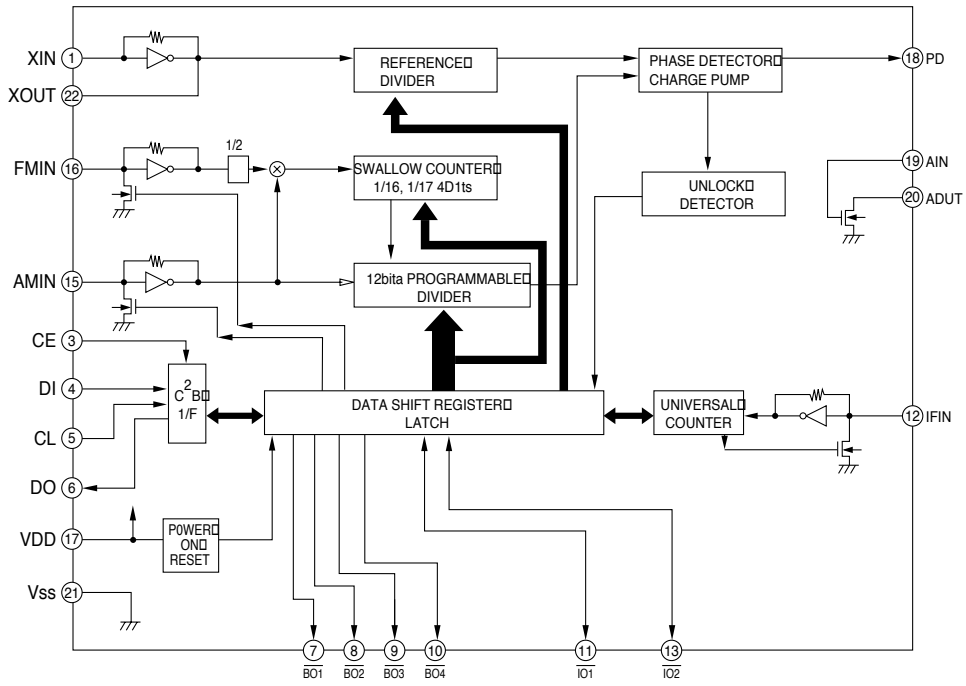
STK4181V : AIC1



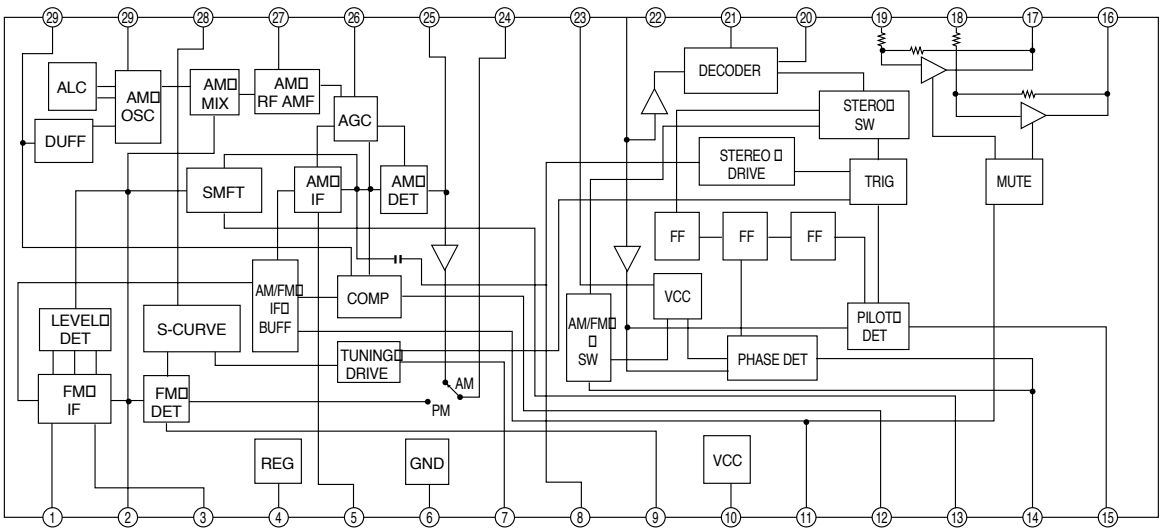
LB1649 : ZIC1



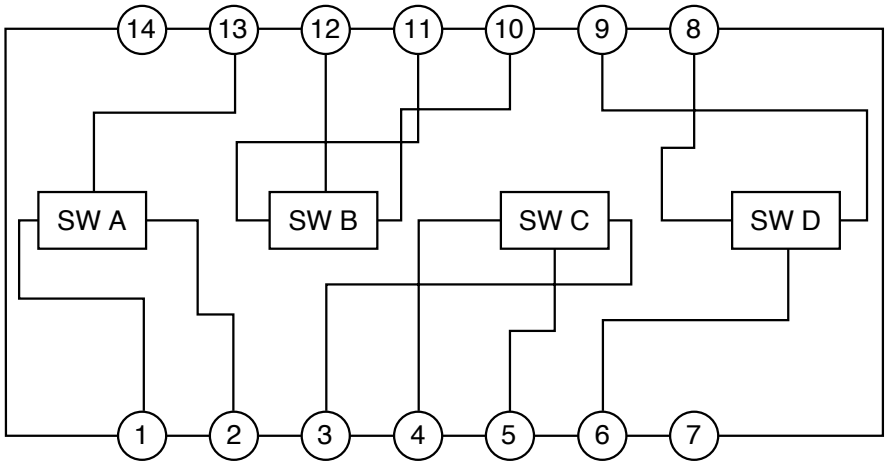
LC72131 : HIC1



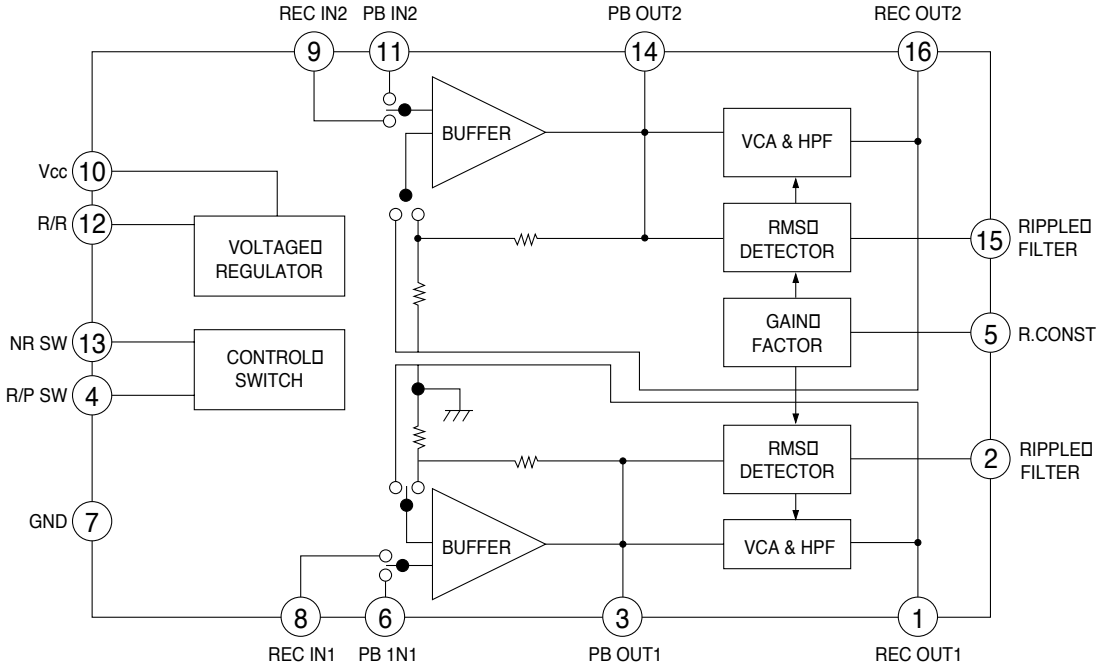
LA1836 : MIC1



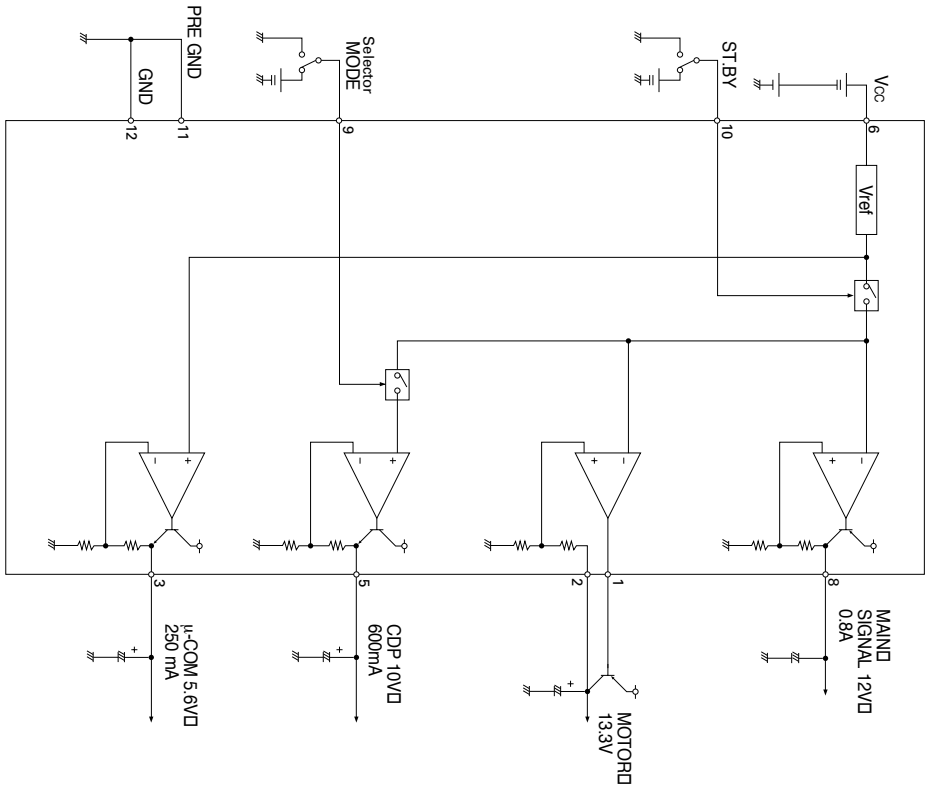
LC4966 : SIC3



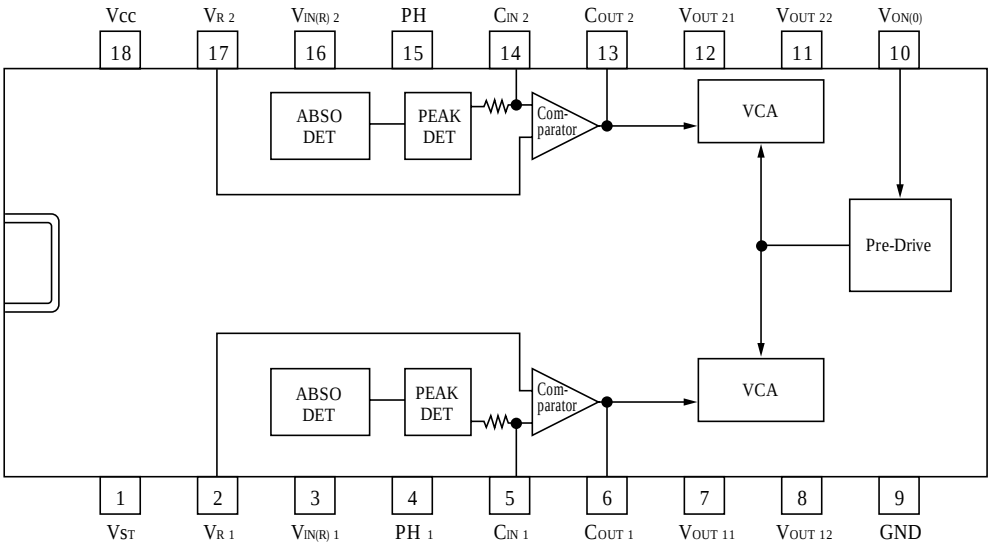
KA2271B : DIC1



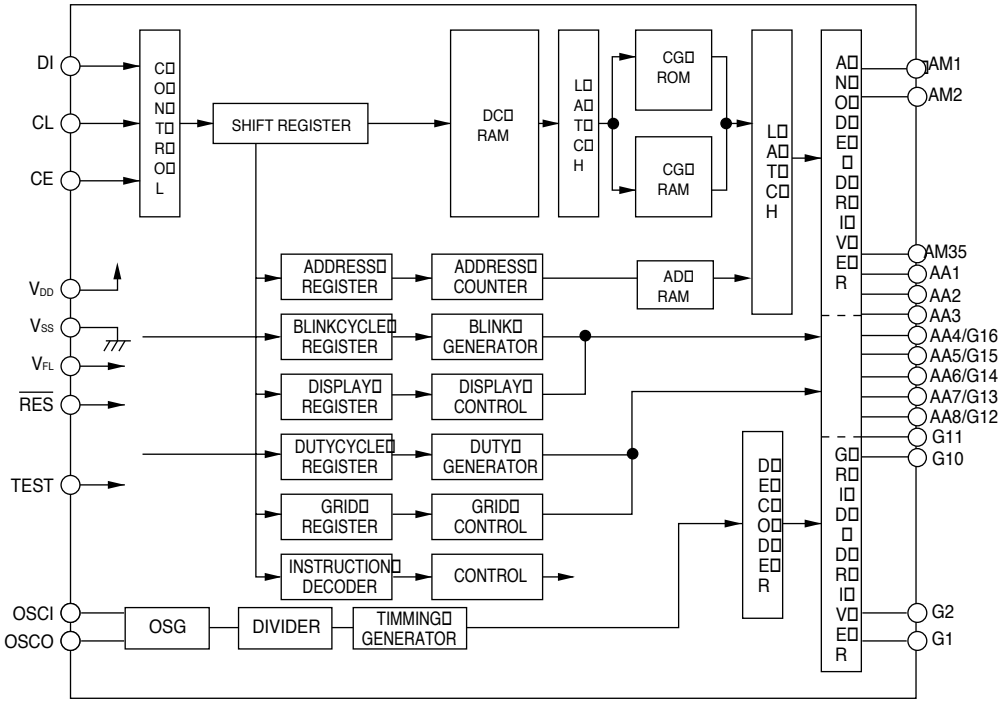
BA3950A : RIC1



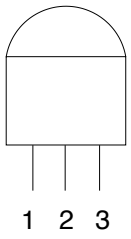
C1297CA : DIC1



LC75710 : FIC1

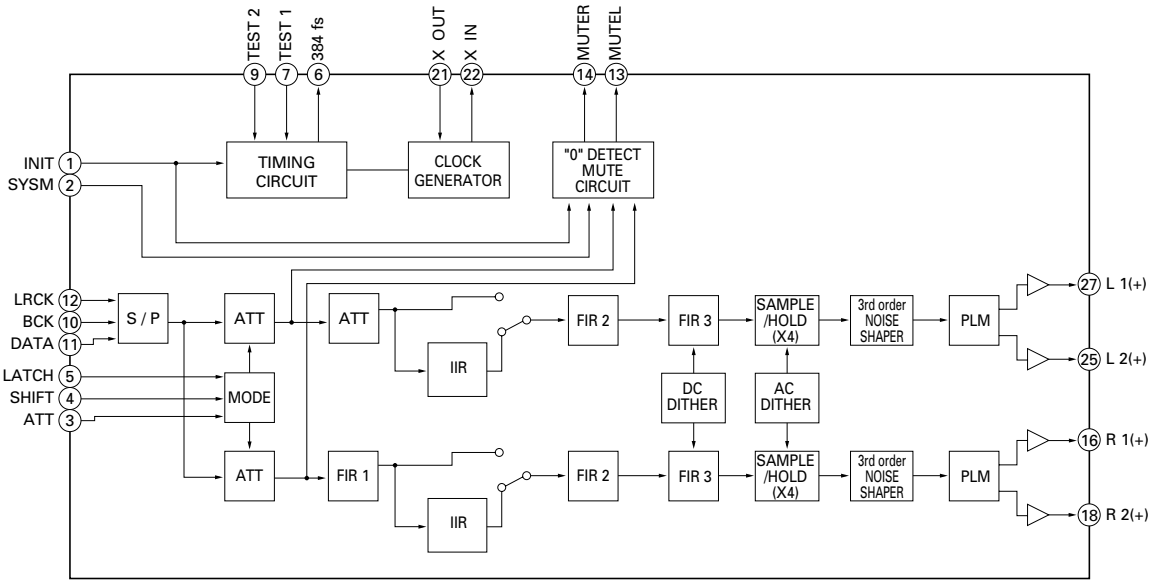


9-3-2 CD

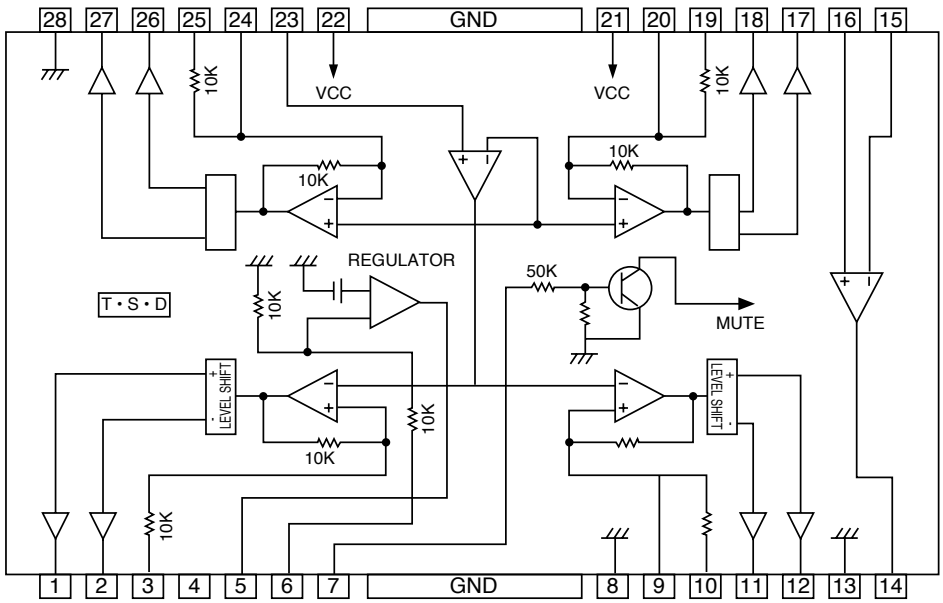


TR	1	2	3
KSC1008	E	B	C
KSA733	E	B	C
KSB564	E	B	C
DSR1003	E	C	B
A928	E	C	B
XIC3	OUT	GND	IN

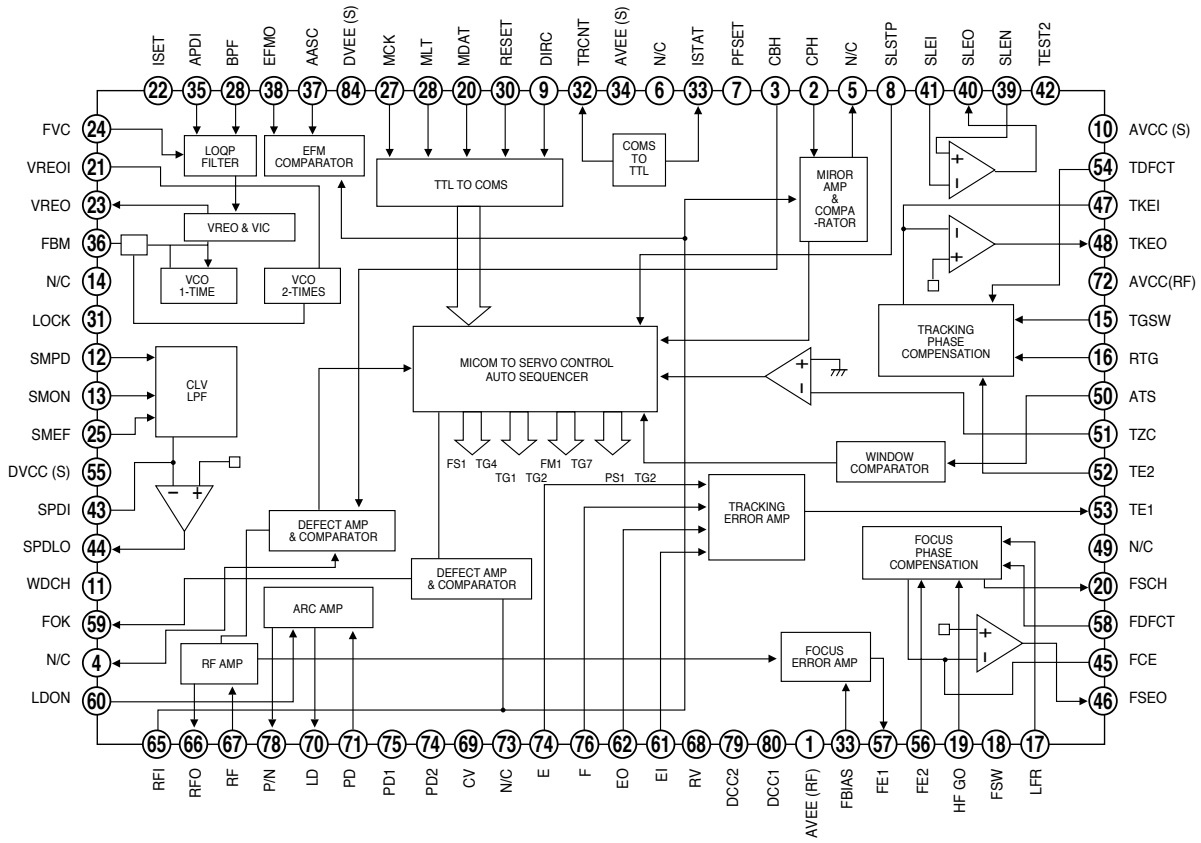
CXD2565M : XIC1



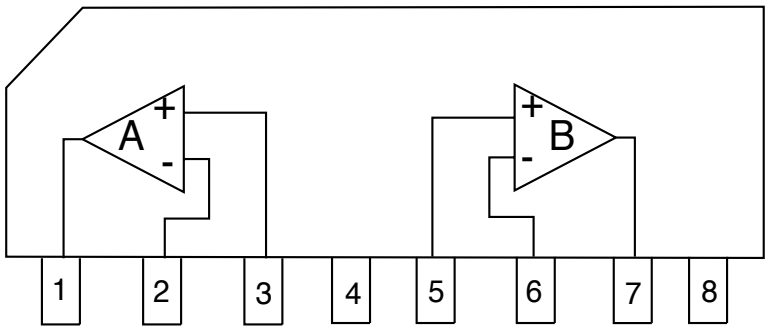
KA9258 : WIC61



KA9220(ASSP) : WIIC01

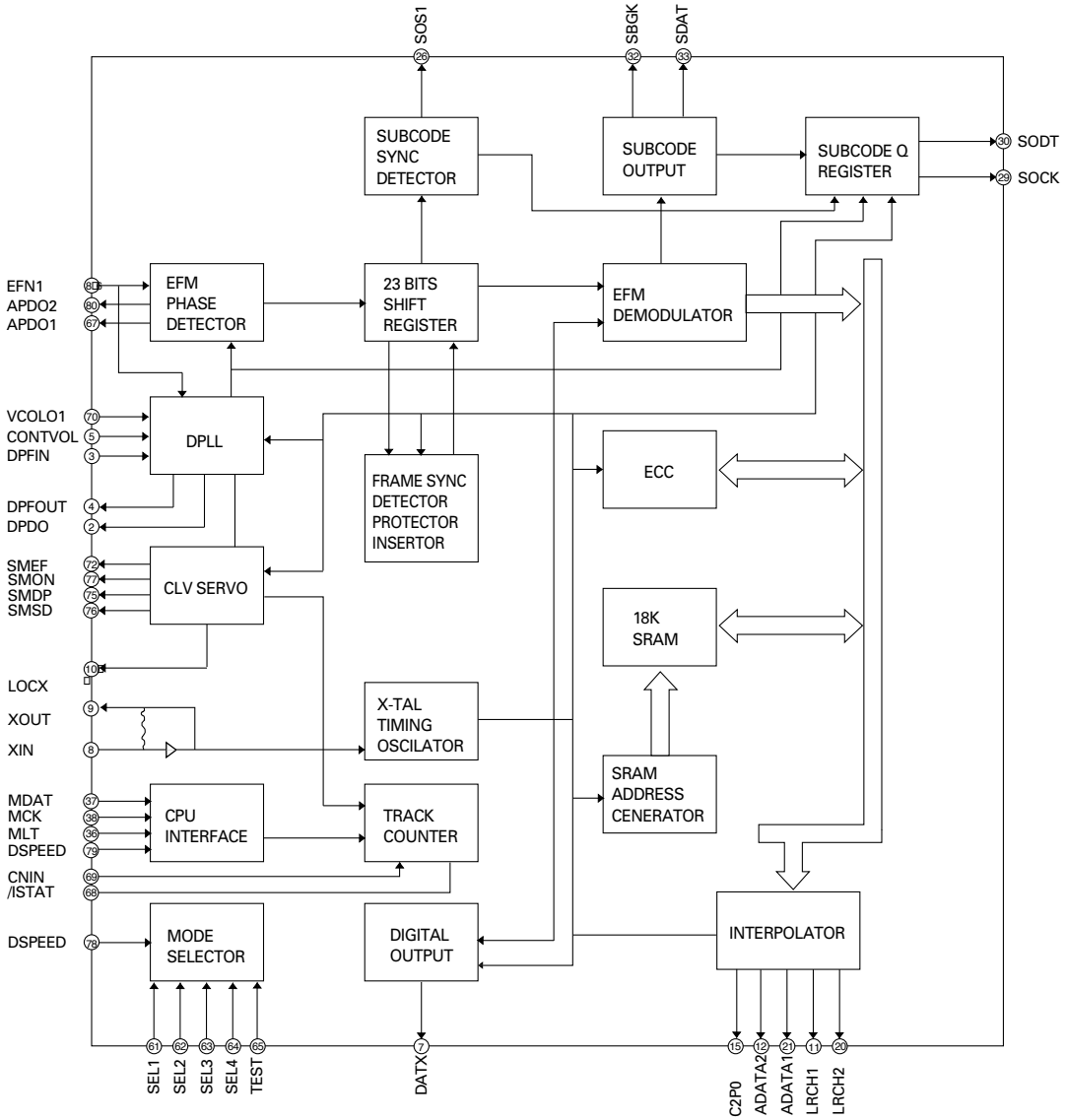


CXD2565M : XIC1



1. A OUTPUT
2. A- INPUT
3. A+ INPUT
4. V-
5. B+ INPUT□
6. B- INPUT□
7. B OUTPUT□
8. V+

KS9283 : WIC41



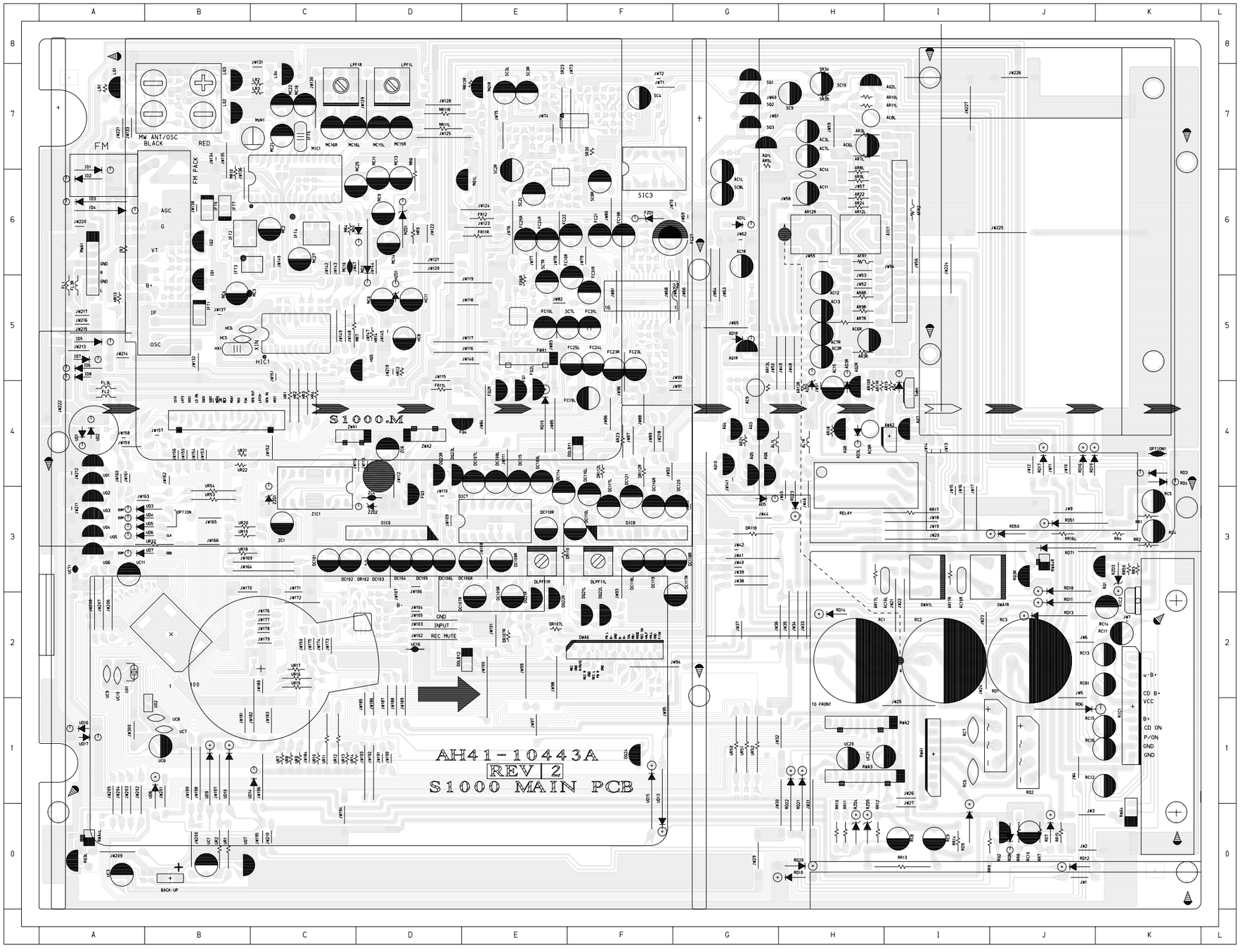
9-4 µ-com(LC866224V-5082) : UIC1

No.	Port	Name	I/O	Description
1	P5 2	DOLBY	O	TAPE DOLBY ON/OFF
2	PWM			
3	P2 0	MOTOR	O	TAPE MOTOR CONTROL
4	1	SOL	O	TAPE SOLENOID CONTROL
5	2	HALF	I	TAPE EXISTENCE OR NOTHING (L : EXISTENCE)
6	3	HALL	I	TAPE AUTO STOP COUNT CHECK
7	4	REC S/W(FWD)	I	REC ENABLE SWITCH
8	5	F.DATA	O	FLT DRIVE IC DATA
9	6	F.CLK	O	FLT DRIVE IC CLOCK
10	7	F.CE	O	FLT DRIVE IC CHIP ENABLE
11	TEST1	NON USED		
12	RESET	RESET		
13	XT 1			SUB CLOCK OSC
14	XT 2			SUB CLOCK OSC
15	VSS			DIGITAL GND
16	CF 1			MAIN CLOCK OSC
17	CF 2			MAIN CLOCK OSC
18	VDD			+5V
19	P8 0	REC S/W(RVS)	I	REC ENABLE SWITCH
20	1	MODE	I	TAPE FUNCTION CHECK (STOP MODE : HIGH)
21	2	A/D KEY I/P	I	
22	3	"	I	
23	4	"	I	
24	5			
25	6			
26	7	OPTION I/P	I	RESET OPTION CHECK PORT
27	P7 0	SCOR	I	CD DSP
28	1	D.SENSE	I	CD DISC IN CHECK SENSE
29	2	POSNS	I	POWER CORD ON/OFF(HOLD) CHECK
30	3	REMOCON	I	REMOCON INPUT
31	S0 / T0	POCNT	O	POWER ON/OFF
32	S1 / T1	LED ON	O	
33	S2 / T2	CDB+	O	CD PART POWER ON
34	S3 / T3	REC-	O	TAPE REC
35	S4 / T4	TUNER MUTE		TUNER PART MUTE CONTROL
36	S5 / T5			
37	S6 / T6			
38	S7 / T7			
39	S8 / T8			
40	S9 / T9			
41	S10 / T10			
42	S11 / T11			
43	S12 / T12			
44	S13 / T13			
45	S14 / T14			
46	S15 / T15			
47	Vdd / Vpp			
48	Vp			
49	S16			
50	S17			

No.	Port	Name	I/O	Function
51	S18	LED(REW)	O	
52	S19	LED(R.PLAY)	O	
53	S20	LED(F.PLAY)	O	
54	S21	LED(F.F)	O	
55	S22	LED(STOP)	O	
56	S23	LED(PAUSE)	O	
57	S24	LED(CD ON)	O	
58	S25	LD ON	O	LD LASER DIODE ON
59	S26	SRS ON	O	SRS ON/OFF
60	S27	D4		OPTION DIODE
61	S28	D3		OPTION 'H' MODE : 24H
62	S29	D2		OPTION 'H' MODE : 24H
63	S30	D1		OPTION 'H' MODE : 24H
64	S31	D0		OPTION 'H' MODE : 24H
65	P00	DACXLT	O	DAC IC LATCH
66	P01	MCLK	O	CD DSP / DAC CLK
67	P02	MDATA	O	CD DSP / DAC DATA
68	P03	CD MUTE	O	CD MUTE ON/OFF
69	P04	STEREO	I	DTS STEREO INPUT
70	P05	FOK	I	CD FOCUS OK INPUT
71	P06	ISTAT	I	CD DSP SENSE
72	P07	SD	I	DTS TUNED INPUT
73	P10/S00	SENSE OUTPUT	O	CD DISC SENSE OUTPUT SIGNAL CONTROL
74	P11/S01	SQDT	I	CD DSP SUBQ DATA INPUT
75	P12/SCK0	SQCK	O	CD DSP SIO CLOCK
76	P13/S03	LKFS	I	GFS
77	P14/S04	XLT	O	CD DSP XLT
78	P15/SCK1	CLK	O	PLL/FUNCTION CLOCK
79	P16/BUZ	P.CE	O	PLL CHIP ENABLE
80	P17/PWM0	P.DO	O	PLL/FUNCTION DATA OUTPUT
81	P30	P.DI	I	PLL DATA INPUT
82	P31	F.MUTE	O	FUNCTION MUTE
83	P32	A.MUTE	O	AUDIO MUTE
84	P33	RELAY	O	
85	P34	SHORT SENCE	I	
86	P35	DC SENSE	I	
87	P36	XRST	O	
88	P37	WINDOW OPEN DRIVE IC	O	
89	VSS	GND		
90	VDD	VDD		
91	P40	WINDOW OPEN SENSOR	I	
92	P41	WINDOW CLOSE SENSOR	I	
93	P42	HIDDEN KEY OPEN DRIVE IC	O	
94	P43	HIDDEN KEY OPEN DRIVE IC	O	
95	P44	WINDOW CLOSE DRIVE IC	O	
96	P45	HIDDEN KEY OPEN SENSOR	I	
97	P46	HIDDEN KEY CLOSE SENSOR	I	
98	P47	AMPS IN	I	TAPE AMPS INPUT CHECK
99	P50	TAPE MUTE	O	TAPE FUNCTION MUTE
100	P51	REC MUTE	O	TAPE REC MUTE(REC MUTE ON 'H')

10 PCB Diagrams

10-1 Main



*** RESISTOR ***

AFR1 (H6)
AFR2 (I6)
AR10L (H7)
AR10R (H4)
AR11L (H7)
AR11R (H4)
AR13L (G4)
AR13R (H4)
AR17L (H3)
AR17R (I3)
AR18 (H4)
AR19 (I4)
AR21 (G4)
AR22 (H6)
AR23 (F4)
AR24 (H6)
AR3L (H7)
AR3R (H5)
AR5L (G7)
AR7L (H7)
AR7R (H5)
AR8L (H6)
AR8R (H5)
AR9L (H6)
AR9R (H5)
DR102 (D3)
DR107L (E2)
DR107R (E2)
DR110 (E3)
DR112L (F4)
DR112R (F3)
DR118 (G3)
FR11L (D4)
FR11R (D6)
FR12 (E6)
FR6R (E5)
HR1 (C4)
HR12 (D4)
HR13 (A5)
HR14 (D5)
HR2 (C4)
HR3 (C4)
HR4 (C4)
HR9 (D6)
IR2 (A6)
LR1 (A7)
LR2 (B7)
LR3 (B7)
MR10 (B6)
MR11L (D7)
MR11R (D7)
MR13R (E7)
MR4 (C6)
MR6 (D6)
MR7 (C5)
RR1 (K3)
RR10 (H0)
RR11 (H0)
RR12 (H0)
RR13 (H0)
RR14 (I0)
RR15 (J0)
RR16L (J3)
RR17 (H3)
RR2 (K3)
RR3 (K3)
RR4 (K3)
RR50 (K3)
RR7 (J0)
RR8 (J0)
RR9 (J0)
SR23 (E7)
SR30 (F7)
SR34 (H7)
SR35 (H7)
UR1 (B0)
UR10 (C1)
UR11 (C1)
UR12 (C1)
UR13 (C1)
UR14 (D1)
UR15 (C2)
UR16 (C2)
UR17 (C2)
UR18 (B3)
UR19 (B3)
UR2 (B0)
UR20 (B3)
UR21 (B4)
UR22 (B4)
UR32 (A3)
UR50 (G1)
UR51 (G1)
UR52 (G1)
UR53 (B3)
UR54 (B3)
UR7 (C1)
UR8 (C1)
UR9 (C1)

*** CONDENSER ***

AC10L (I3)
AC10R (I3)
AC11 (H6)
AC12 (H5)
AC13 (H5)
AC14 (H6)
AC15 (H5)
AC1L (G6)
AC1R (G6)
AC3L (H7)
AC3R (H5)
AC6L (H7)
AC6R (H5)
AC7L (H7)
AC7R (H5)
AC8L (H7)
AC8R (H4)
AC9 (G4)
DC101 (C3)
DC102 (C3)
DC103 (D3)
DC104 (D3)
DC105 (D3)
DC106L (D3)
DC106R (E3)
DC107L (E3)
DC107R (E3)
DC108L (E3)
DC108R (E3)
DC109L (E3)
DC109R (E3)
DC110L (F3)
DC110R (E3)
DC114 (E3)
DC115 (E3)
DC116L (F3)
DC116R (F3)
DC117L (F3)
DC117R (G3)
DC118L (F3)
DC118R (G3)
DC119 (F3)
DC120 (G3)
DC121 (F3)
FC10L (E5)
FC10R (F5)
FC19L (F4)
FC19R (F6)
FC21 (F6)
FC22 (F6)
FC23L (F5)
FC23R (F5)
FC24L (F5)
FC24R (E6)
FC25L (F5)
FC25R (E6)
FC27 (F6)
FC31L (F5)
FC31R (F5)
HC11 (D5)
HC5 (B5)
HC6 (B5)
HC8 (D5)
MC10 (C5)
MC11 (D7)
MC13 (D7)
MC14 (D6)
MC15L (D7)
MC15R (D7)
MC16L (C7)
MC16R (C7)
MC18 (C7)
MC2 (C6)
MC21 (C7)
MC22 (C7)
MC25 (D6)
MC27 (C6)
MC3 (B5)
MC4 (B5)
MC6 (D5)
MC9 (D6)
OPTION1 (K4)
RC1 (H2)
RC10 (J0)
RC11 (K2)
RC12 (K1)
RC13 (K2)
RC14 (K2)
RC15 (K1)
RC16 (K1)
RC2 (I2)
RC3 (J2)
RC4 (K3)
RC5 (K3)
RC8 (I0)
RC81 (K2)
RC9 (I0)
SC10 (H7)
SC2L (E6)
SC2R (E6)
SC3L (E7)
SC3R (E7)
SC4 (F7)
SC7L (F5)
SC7R (E5)
SC8L (G6)
SC8R (F6)
SC9 (H7)
UC1 (B0)
UC10 (A2)
UC11 (A3)
UC16 (D2)
UC20 (H1)
UC21 (H1)
UC3 (A0)
UC6 (B1)
UC7 (B1)
UC71 (A3)
UC8 (B1)
UC9 (A2)
ZC1 (C3)
ZC4 (D3)
ZC6 (D4)

*** DIODE ***

AD1L (G6)
AD1R (G5)
AD3L (H4)
AD3R (H5)
AD4 (I5)
AD5 (G3)
AZD1 (H5)
FZD1 (F6)
HZD1 (D5)
ID1 (A6)
ID2 (A6)
ID3 (A6)
ID4 (A6)
ID5 (A5)
ID6 (A5)
ID7 (A5)
ID8 (A5)
MD1 (D6)
MD2 (D5)
MZD1 (D6)
RD10 (G0)
RD11 (J2)
RD12 (J0)
RD13 (J2)
RD14 (H2)
RD15 (E4)
RD16 (J4)
RD17 (J4)
RD18 (J3)
RD19 (J4)
RD20 (H0)
RD21 (H1)
RD22 (H1)
RD23 (H3)
RD3 (K4)
RD4 (K4)
RD50 (J3)
RD51 (J3)
RD7 (J0)
RD71 (J3)
RD8 (J0)
RD9 (I0)
RZD3 (K3)
RZD4 (H0)
RZD5 (H0)
UD1 (A4)
UD10 (B1)
UD13 (F0)
UD14 (C1)
UD15 (F1)
UD16 (A1)
UD17 (A1)
UD2 (A4)
UD3 (A3)
UD4 (A3)
UD5 (A3)
UD6 (A3)
UD7 (A3)
UD8 (B1)
UD9 (B1)
ZZD1 (C4)
ZZD2 (D3)

*** TR ***

AQ10 (G4)
AQ1L (G7)
AQ1R (G5)
AQ2L (H7)
AQ2R (H4)
AQ3 (G4)
AQ4 (G4)
AQ5 (G4)
AQ6 (G4)
AQ7 (I4)
AQ8 (H4)
DQ21L (F2)
DQ21R (E3)
DQ22L (F2)
DQ22R (E3)
DQ23L (D4)
DQ23R (D4)
DQ24 (F1)
FQ1 (E4)
FQ2L (E5)
FQ2R (E4)
FQ3 (D4)
FQ4 (E4)
HQ5 (D5)
IQ1 (B5)
IQ2 (B6)
LQ1 (A7)
LQ2 (B7)
LQ3 (B7)
LQ4 (C7)
MQ1L (E6)
MQ1R (E7)
RQ1 (K3)
RQ2 (J0)
RQ3L (A0)
RQ3R (J3)
SQ1 (G7)
SQ2 (G7)
SQ3 (G7)
UQ1 (A4)
UQ2 (A4)
UQ3 (A3)
UQ4 (A3)
UQ5 (A3)
UQ6 (A3)
UQ7 (B0)

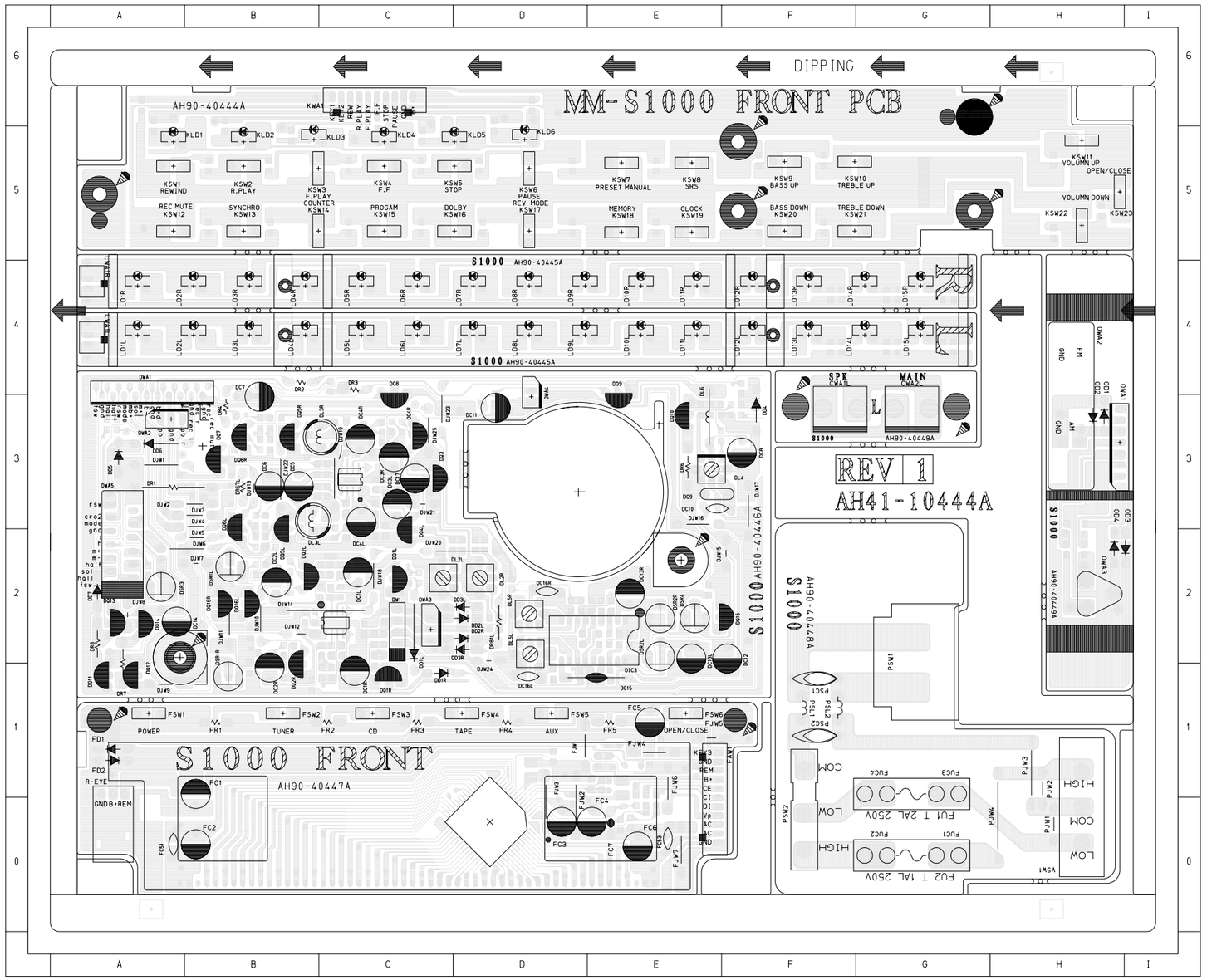
*** IC&WAFER ***

AWA2 (I4)
BACK-UP (B0)
DIC6 (D3)
DIC8 (F3)
DLPF11L (F3)
DLPF11R (E3)
DOLBY1 (F4)
DOLBY2 (E2)
DWA6 (F2)
FWA1 (E5)
IFT3 (B6)
IFT4 (C6)
MWA1 (A6)
RIC1 (K1)
RWA1 (I1)
RWA2 (H1)
RWA3 (H1)
RWA4 (K0)
RWA4L (A0)
RWA4R (J3)
UWA1 (B4)
ZWA1 (C4)
ZWA2 (D4)

*** CHIP ***

AC2L (G7)
AC2R (G5)
AC4L (I7)
AC4R (I5)
AC5L (I6)
AC5R (I5)
AR14 (G4)
AR15 (G4)
AR16 (G4)
AR1L (G7)
AR1R (G5)
AR20 (I4)
AR2L (G7)
AR2R (G5)
AR4L (I7)
AR4R (I5)
AR5R (G5)
AR6L (I7)
AR6R (I5)
DC111L (F3)
DC111R (E3)
DC112L (F3)
DC112R (E3)
DC113L (F3)
DC113R (E3)
DC122 (D2)
DC123 (D2)
DC124 (E4)
DIC9 (D2)
DR101 (C3)
DR103L (E4)
DR103R (E3)
DR104L (E4)
DR104R (E3)
DR105 (E3)
DR106 (E3)
DR108L (E4)
DR108R (E2)
DR109L (F3)
DR109R (E3)
DR111L (D2)
DR111R (D2)
DR113L (F3)
DR113R (F3)
DR114L (F3)
DR114R (G2)
DR115L (F3)
DR115R (F3)
DR116L (F3)
DR116R (E3)
DR117 (F3)
DR119 (F2)
DR120 (F2)
DR121 (D2)
DR122 (D2)
DR123 (D2)
DR124 (D2)
DR125 (D3)
FC32 (F4)
FC4L (F5)
FC4R (F6)
FC5L (F5)
FC5R (F6)
FC6L (F5)
FC6R (F6)
FC7L (F5)
FC7R (F6)
FC8L (F5)
FC8R (F6)
FC9L (F5)
FC9R (F6)
FIC2 (E5)
FR10L (E4)
FR10R (F6)
FR13L (E4)
FR13R (E4)
FR14L (F5)
FR14R (E6)
FR15L (E5)
FR15R (E4)
FR3L (F5)
FR3R (F6)
FR4L (F5)
FR4R (F6)
FR5L (F5)
FR5R (F6)
FR6L (E5)
FR7L (E5)
FR7R (E5)
FR8L (E5)
FR8R (E5)
FR9L (E5)
FR9R (E5)
HC1 (C5)
HC10 (C5)
HC2 (C5)
HC9 (C5)
HR10 (C5)
HR11 (D5)
HR18 (D5)
HR22 (C6)
HR23 (C6)
HR5 (C5)
HR6 (C5)
HR7 (C5)
IC1 (B6)
IC2 (B5)
IC3 (B5)
IC4 (B6)
IC5 (B6)
IC6 (A5)
IC7 (A5)
IC9 (A4)
IR1 (A6)
IR10 (B6)
IR11 (B6)
IR12 (B6)
IR13 (B5)
IR3 (B5)
IR30 (B6)
IR31 (B6)
IR4 (B5)
IR5 (B5)
IR6 (B5)
IR7 (B5)
IR8 (B6)
IR9 (B6)
JW301 (A2)
JW302 (B4)
JW303 (C2)
JW304 (E2)
JW305 (E2)
JW306 (F2)
JW307 (F2)
JW308 (F3)
JW309 (E5)
JW310 (E5)
JW311 (F7)
JW312 (E7)
JW313 (F6)
JW314 (E6)
JW315 (D7)
JW316 (C7)
JW317 (C7)
JW319 (C6)
JW320 (C6)
JW321 (C5)
JW322 (C4)
JW323 (B5)
JW324 (A6)
JW325 (C7)
JW326 (B7)
JW327 (B7)
JW328 (D3)
JW329 (B7)
JW330 (E7)
JW331 (B7)
JW332 (D7)
JW371 (A2)
JW372 (A3)
LJW1 (C5)
LR4 (D7)
MC1 (C6)
MC17L (D7)
MC17R (C7)
MC19 (C6)
MC20 (C6)
MC23 (C7)
MC26L (E7)
MC26R (E7)
MC5 (B6)
MC8 (C5)
MR1 (C6)
MR12L (E7)
MR12R (E7)
MR13L (E6)
MR14 (C6)
MR2 (C5)
MR3 (C6)
MR3-1 (D6)
MR5 (D6)
MR8L (D7)
MR8R (C7)
MR9L (C7)
MR9R (C7)
OC1 (B7)
OC2 (B7)
OR1 (B7)
OR2 (B7)
OR3 (B7)
OR4 (B7)
RR16R (A0)
SC1L (F6)
SC1R (E6)
SC5 (F7)
SC6L (E6)
SC6R (E6)
SIC1 (F7)
SIC2 (E6)
SR10 (E7)
SR11 (E7)
SR12 (F7)
SR13 (F7)
SR14 (F7)
SR15 (E7)
SR16 (E7)
SR17 (F7)
SR18 (F7)
SR19 (F7)
SR1L (F6)
SR1R (F6)
SR20 (F7)
SR21 (F7)
SR22 (E7)
SR24 (F7)
SR25 (F7)
SR26 (F7)
SR27 (F7)
SR28 (F7)
SR29 (F7)
SR2L (E6)
SR2R (E6)
SR31 (F7)
SR32 (F7)
SR33 (F7)
SR3L (E7)
SR3R (E7)
SR40L (F6)
SR40R (E6)
SR4L (E7)
SR4R (E7)
SR5 (E7)
SR6 (E7)
SR7 (E7)
SR8 (E7)
SR9 (E7)
UC12 (A2)
UC13 (A3)
UC14 (C2)
UC17 (G1)
UC18 (G1)
UC19 (G1)
UC2 (B0)
UC4 (B1)
UC5 (B0)
UC50 (B5)
UC51 (G1)
UC52 (A3)
UC53 (A4)
UC72 (A0)
UR31 (C2)
UR33 (A3)
UR6 (B0)
ZC2 (C3)
ZC3 (C3)
ZC5 (D4)

10-2 Front



*** RESISTOR ***

DR1 (A3)
DR2 (B4)
DR3 (C4)
DR4 (B3)
DR6 (E3)
DR67L (B3)
DR7 (A1)
DR8 (A1)
DR81L (D2)
FR1 (B1)
FR2 (B1)
FR3 (C1)
FR4 (D1)
FR5 (E1)

*** CONDENSER ***

DC10 (E3)
DC11 (D3)
DC12 (F2)
DC13L (E2)
DC13R (E2)
DC14 (A2)
DC15 (D1)
DC16L (D1)
DC16R (D2)
DC17 (C3)
DC1L (C2)
DC1R (C1)
DC2L (B2)
DC2R (B1)
DC3L (C3)
DC3R (C3)
DC4L (C3)
DC4R (C3)
DC5 (B3)
DC6 (B3)
DC7 (B3)
DC8 (F3)
DC9 (E3)
DL6 (E3)
FC1 (B0)
FC2 (B0)
FC3 (D0)
FC4 (E0)
FC5 (E1)
FC51 (A0)
FC53 (E0)
FC6 (E0)
FC7 (E0)
PSC1 (F1)
PSC2 (F1)
PSL1 (F1)
PSL2 (F1)

*** DIODE ***

DD1L (C1)
DD1R (D1)
DD2L (D2)
DD2R (D2)
DD3L (C2)
DD3R (C2)
DD4 (F4)
DD5 (A3)
DD6 (A3)
DD7 (A2)
FD1 (A1)
FD2 (A1)
0D1 (H3)
0D2 (H3)
0D3 (I2)
0D4 (H2)

*** TR ***

DQ10 (E3)
DQ11 (A1)
DQ12 (A1)
DQ13 (A2)
DQ14 (A2)
DQ15 (E2)
DQ16L (B2)
DQ16R (B2)
DQ1L (C2)
DQ1R (C1)
DQ2L (B2)
DQ2R (B1)
DQ3 (C3)
DQ4L (C2)
DQ4R (C3)
DQ5L (B2)
DQ5R (B3)
DQ6L (B2)
DQ6R (B3)
DQ7 (B3)
DQ8 (C4)
DQ9 (E4)

*** IC&WAFER ***

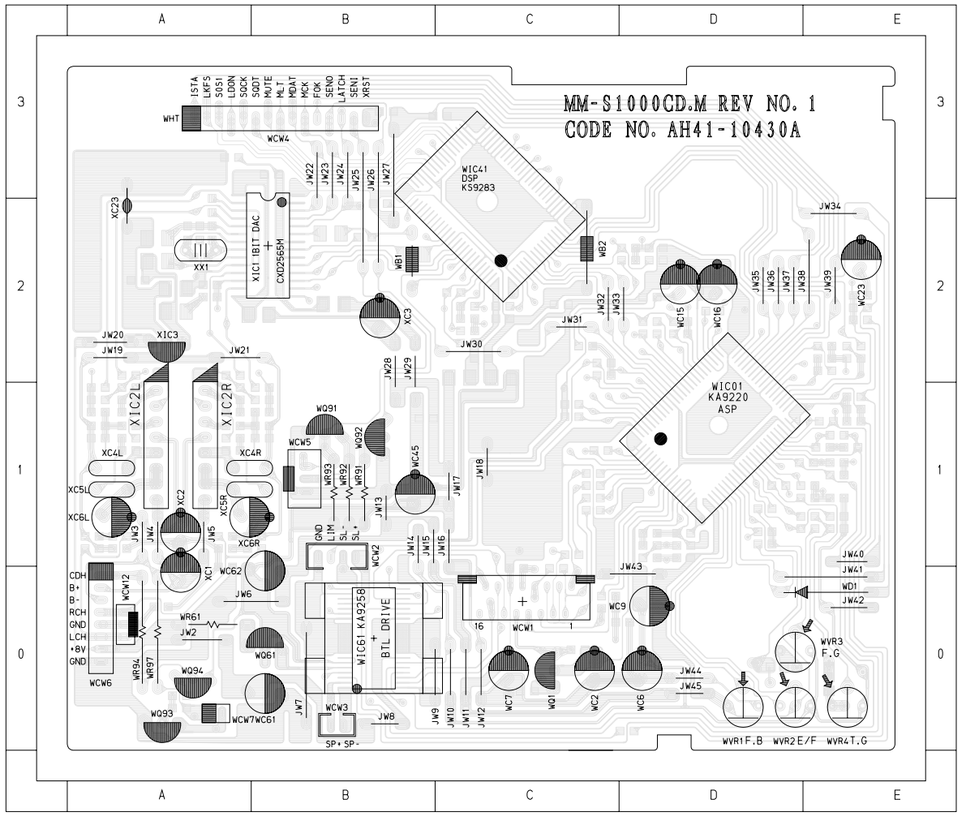
DL2L (D2)
DL2R (D2)
DL4 (F3)
DL5L (D2)
DL5R (D2)
DW1 (C2)
DWA1 (A4)
DWA2 (A3)
DWA3 (C2)
DWA4 (D3)
FAW1 (E1)
FIC1 (D0)
FSW1 (A1)
FSW2 (B1)
FSW3 (C1)
FSW4 (D1)
FSW5 (D1)
FSW6 (E1)
KSW1 (A5)
KSW10 (F5)
KSW11 (H5)
KSW12 (A5)
KSW13 (B5)
KSW14 (B5)
KSW15 (C5)
KSW16 (D5)
KSW17 (D5)
KSW18 (E5)
KSW19 (E5)
KSW2 (B5)
KSW20 (F5)
KSW21 (F5)
KSW22 (H5)
KSW23 (H5)
KSW3 (B5)
KSW4 (C5)
KSW5 (D5)
KSW6 (D5)
KSW7 (E5)
KSW8 (E5)
KSW9 (F5)
KWA1 (C6)
LWA1L (A4)
LWA1R (A4)
OWA1 (H3)
VSW1 (H0)

*** CHIP ***

DC51L (C2)
DC51R (C2)
DC52L (C2)
DC52R (C1)
DC53L (C2)
DC53R (C2)
DC54 (B2)
DC55L (C2)
DC55R (C2)
DC56L (C2)
DC56R (C2)
DC57L (C2)
DC57R (C1)
DC58L (B2)
DC58R (B2)
DC59L (B2)
DC59R (B1)
DC60L (D2)
DC61L (C2)
DC61R (C3)
DC62L (C2)
DC62R (C3)
DC63L (C3)
DC63R (C3)
DC64L (C3)
DC64R (C3)
DC65L (B2)
DC65R (B3)
DC66L (B2)
DC66R (B3)
DC67 (F3)
DC68 (F3)
DC69 (E3)
DC70L (E1)
DC70R (E2)
DC71L (D1)
DC71R (D2)
DC72 (B2)
DC73L (E1)
DC73R (E2)
DC74L (E2)
DC74R (D2)
DC75L (E1)
DC75R (E2)
DJW51 (A3)
DJW52 (A3)
DJW53 (B3)
DJW54 (B3)
DJW55 (B2)
DJW56 (B1)
DJW57 (B2)
DJW58 (D2)
DJW59 (D2)
DJW60 (D2)
DJW61 (E2)
DJW62 (F3)
DJW63 (B3)
DJW64 (B3)
DJW65 (B3)
DJW66 (C4)
DJW67 (B1)
DR5 (D3)
DR51L (C2)
DR51R (C1)
DR52L (C2)
DR52R (C2)
DR53L (C2)
DR53R (C1)
DR54L (C2)
DR54R (C2)
DR55L (C2)
DR55R (C1)
DR56L (B2)
DR56R (B1)
DR57L (B2)
DR57R (B2)
DR58L (B2)
DR58R (B1)
DR60L (D2)
DR60R (D2)
DR61L (C3)
DR61R (C3)
DR62L (C3)
DR62R (C3)
DR63L (C3)
DR63R (C3)
DR64L (C2)
DR64R (C3)
DR65L (C2)
DR65R (B3)
DR66L (C2)
DR66R (C3)
DR67R (B3)
DR68L (C3)
DR68R (C3)
DR69L (B3)
DR69R (B3)
DR70L (B3)
DR70R (B3)
DR71L (B2)
DR71R (B3)
DR72 (B3)
DR73 (F3)
DR74 (F3)
DR75 (E3)
DR76 (A3)
DR77 (A2)
DR78L (D1)
DR78R (D2)
DR79L (E2)
DR79R (E2)
DR80 (E2)
DR81R (D2)
FB1 (D1)
FB2 (E0)
FC52 (E1)
FC54 (E0)
FC55 (E0)
FIC1 (D0)
FJW51 (E1)
FJW52 (D1)
FJW53 (E1)
FJW54 (E1)
FJW55 (E1)
FR51 (D0)
FR52 (E1)
FR53 (E0)
FR54 (E0)
FR55 (E0)
FR56 (E1)
KJW1 (A6)
KJW2 (D6)
KR1 (A5)
KR10 (C5)
KR11 (D5)
KR12 (D5)
KR13 (E5)
KR14 (F5)
KR15 (F5)
KR16 (H5)
KR17 (B5)
KR18 (B5)
KR19 (C5)
KR2 (B5)
KR20 (C5)
KR21 (D5)
KR22 (D5)
KR23 (E5)
KR24 (F5)
KR25 (F5)
KR26 (H5)
KR27 (H5)
KR3 (B5)
KR4 (C5)
KR5 (C5)
KR6 (D5)
KR7 (B5)
KR8 (B5)
KR9 (C5)
LR1L (F4)
LR1R (F4)
LR2L (F4)
LR2R (F4)
LR3L (G4)
LR3R (G4)
LR4L (G4)
LR4R (G4)
LR5L (G4)
LR5R (G4)
LR6L (G4)
LR6R (G4)
OR1 (H2)
OR2 (H2)
OR3 (H2)
OR4 (H2)

10-3 CD

10-3-1 Main



*** RESISTOR ***

* (B1)
* (B1)
* (A0)
* (A0)
* (A0)

*** CONDENSER ***

* (D2)
* (E2)
* (A1)
* (A0)
* (D0)
* (D2)
* (C0)
* (B1)
* (C0)
* (D0)
* (A0)
* (A1)
* (A1)
* (A1)
* (A1)
* (A0)
* (A1)
* (A1)
* (B2)
* (A2)

*** DIODE ***

* (D0)

*** TR ***

* (B1)
* (B1)
* (A0)
* (C0)
* (A2)
* (A0)
* (A0)

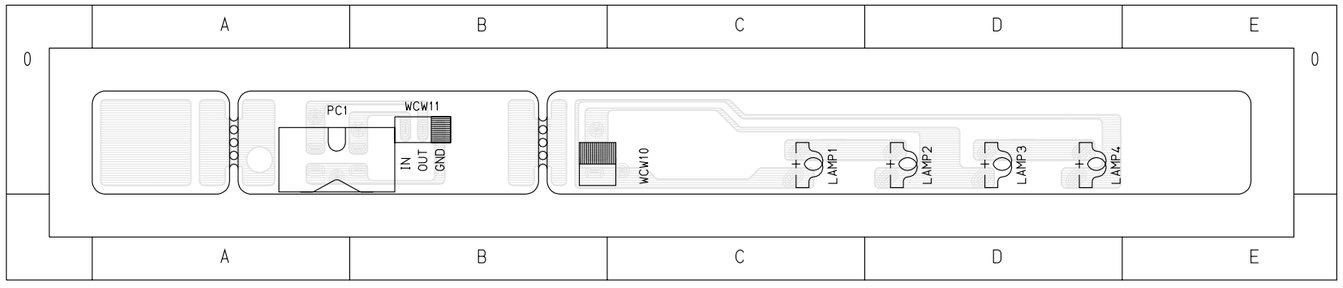
*** IC&WAFER ***

* (A1)
* (A0)
* (A0)
* (B1)
* (B0)
* (B1)
* (A1)
* (B3)
* (A0)

*** CHIP ***

WB3 (C2)
WC1 (C0)
WC10 (C1)
WC11 (C1)
WC12 (D2)
WC13 (D2)
WC14 (D2)
WC17 (D2)
WC18 (D2)
WC19 (E2)
WC20 (E2)
WC21 (E1)
WC22 (E2)
WC24 (E1)
WC25 (E1)
WC26 (E1)
WC27 (E1)
WC28 (D1)
WC29 (E1)
WC3 (D1)
WC30 (D1)
WC31 (E1)
WC32 (D1)
WC39 (D2)
WC4 (D1)
WC41 (C2)
WC42 (C2)
WC46 (C2)
WC47 (C2)
WC48 (C3)
WC49 (B2)
WC5 (D1)
WC50 (B1)
WC51 (B1)
WC52 (C2)
WC8 (C1)
WIC01 (D1)
WIC41 (C2)
WIC61 (B0)
WJW1 (D0)
WJW2 (D0)
WJW3 (C0)
WJW4 (C0)
WJW5 (C1)
WJW6 (C1)
WJW7 (C1)
WJW8 (C2)
WJW9 (C2)
WL1 (C2)
WR1 (C0)
WR10 (C2)
WR11 (C2)
WR12 (D2)
WR13 (D2)
WR14 (D2)
WR15 (D2)
WR16 (D2)
WR17 (E2)
WR18 (E2)
WR19 (E2)
WR2 (C0)
WR20 (E1)
WR21 (E2)
WR22 (E2)
WR23 (E1)
WR24 (E1)
WR25 (E1)
WR26 (E1)
WR27 (E1)
WR28 (E1)
WR29 (E1)
WR3 (D1)
WR30 (E1)
WR31 (D1)
WR32 (D0)
WR33 (E0)
WR34 (E1)
WR4 (D1)
WR41 (C2)
WR42 (C2)
WR43 (C2)
WR46 (B3)
WR5 (D1)
WR7 (C1)
WR8 (C1)
WR9 (C0)
WR95 (A0)
WR96 (A0)
XB1 (B2)
XB2 (A2)
XB3 (A2)
XB5 (B2)
XB6 (B2)
XC10 (A2)
XC1L (A1)
XC1R (B1)
XC21 (A0)
XC22 (A3)
XC24 (B2)
XC2L (A1)
XC2R (B1)
XC3L (A1)
XC3R (A1)
XC4 (A2)
XC5 (A2)
XC6 (A2)
XC7 (B3)
XC8 (A2)
XC9 (A2)
XIC1 (B2)
XJW2 (A2)
XJW3 (A1)
XJW4 (A1)
XJW5 (A1)
XJW6 (A1)
XJW7 (A0)
XL1 (B2)
XL2 (A2)
XL3 (A2)
XR1 (A2)
XR10L (A1)
XR10R (A1)
XR11L (A1)
XR11R (B1)
XR1L (A1)
XR1R (B1)
XR2L (A2)
XR2R (A2)
XR3L (A1)
XR3R (B1)
XR4L (A1)
XR4R (A1)
XR5L (A1)
XR5R (B1)
XR6L (A1)
XR6R (A1)
XR7L (A1)
XR7R (A1)
XR8L (A1)
XR8R (A1)
XR9L (A1)
XR9R (B1)

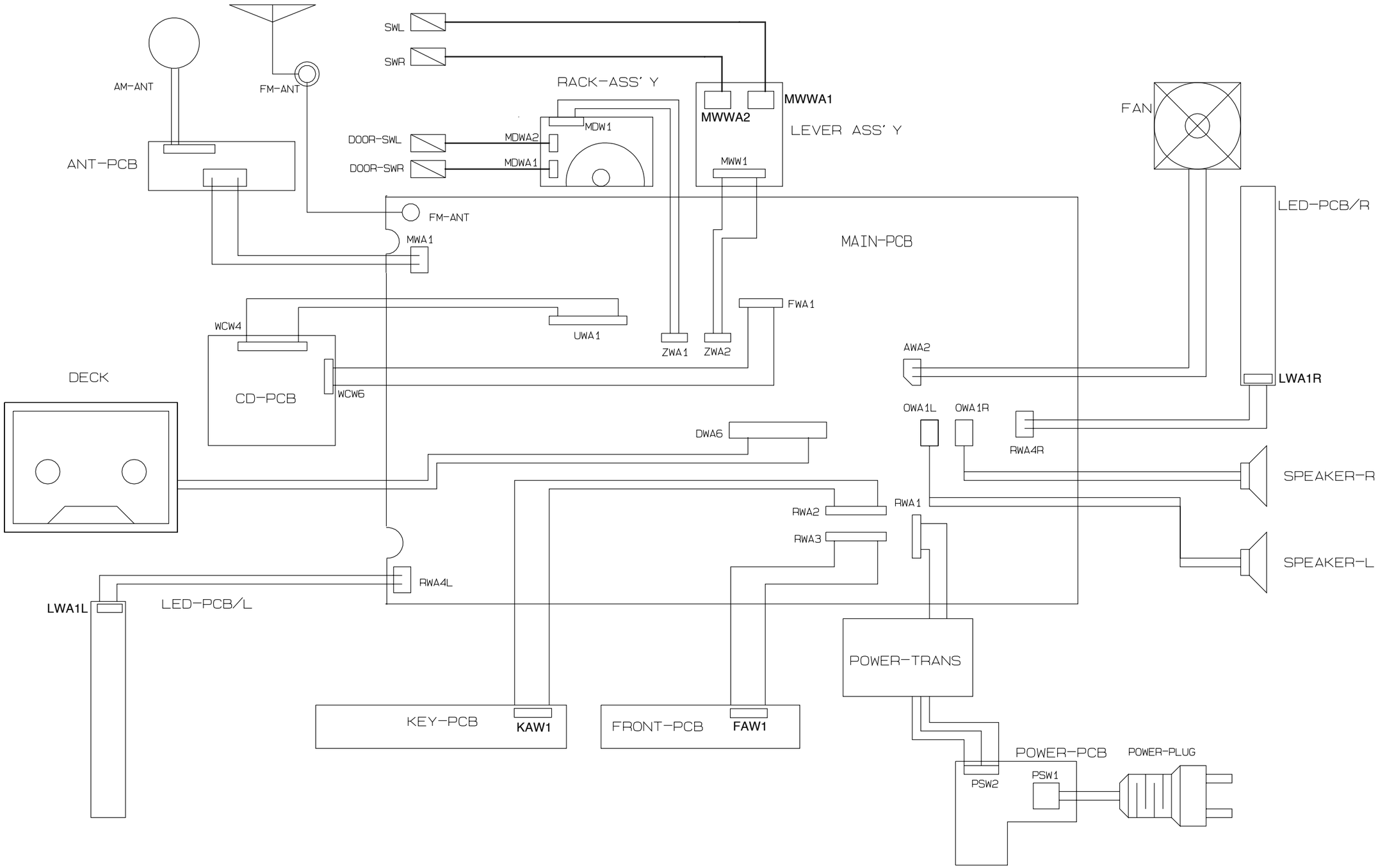
10-3-2 Lamp



*** IC&WAFER ***

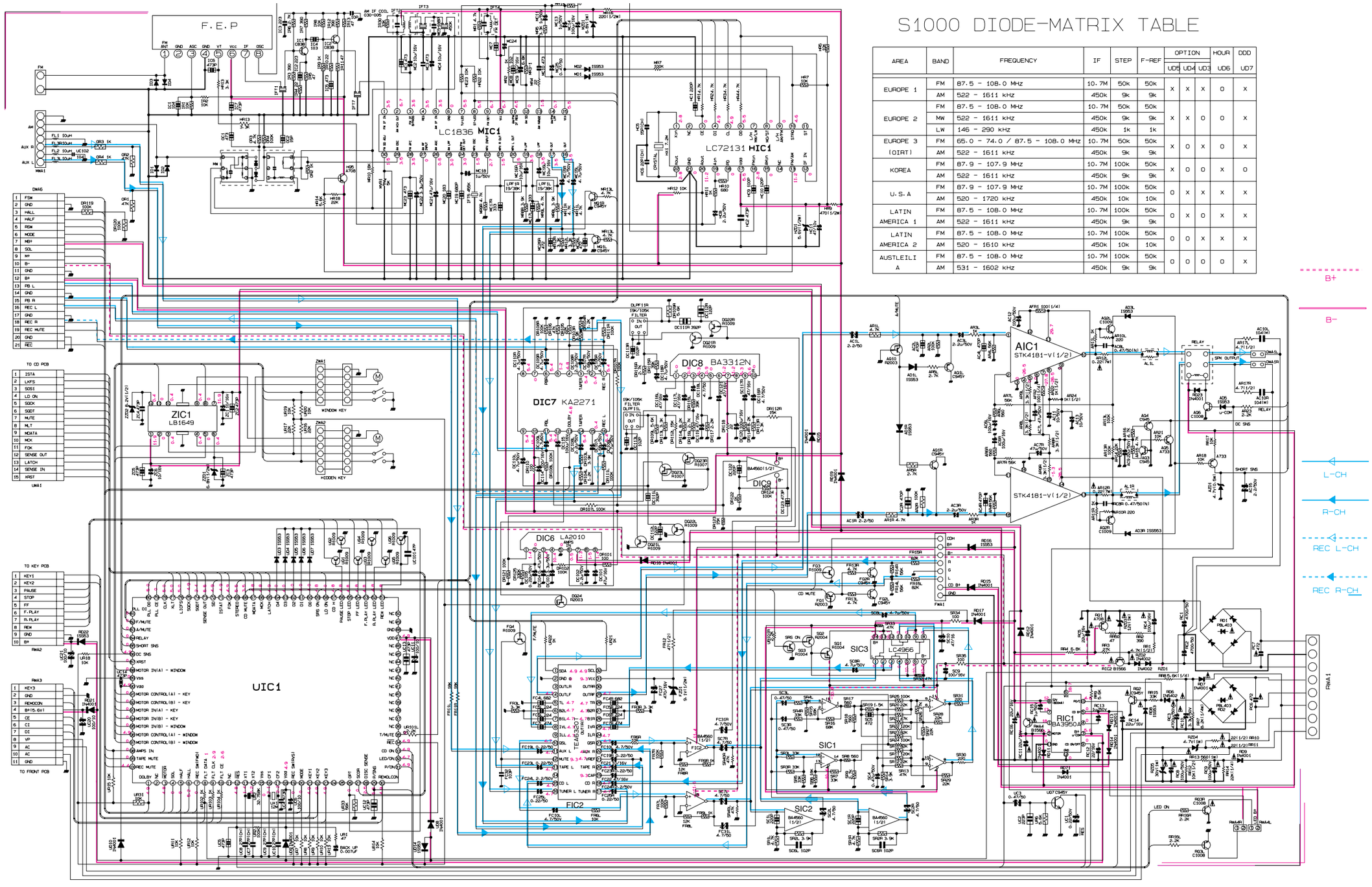
WCW10 (B0)
WCW11 (B0)

11. Wiring Diagram



12. Schematic Diagrams

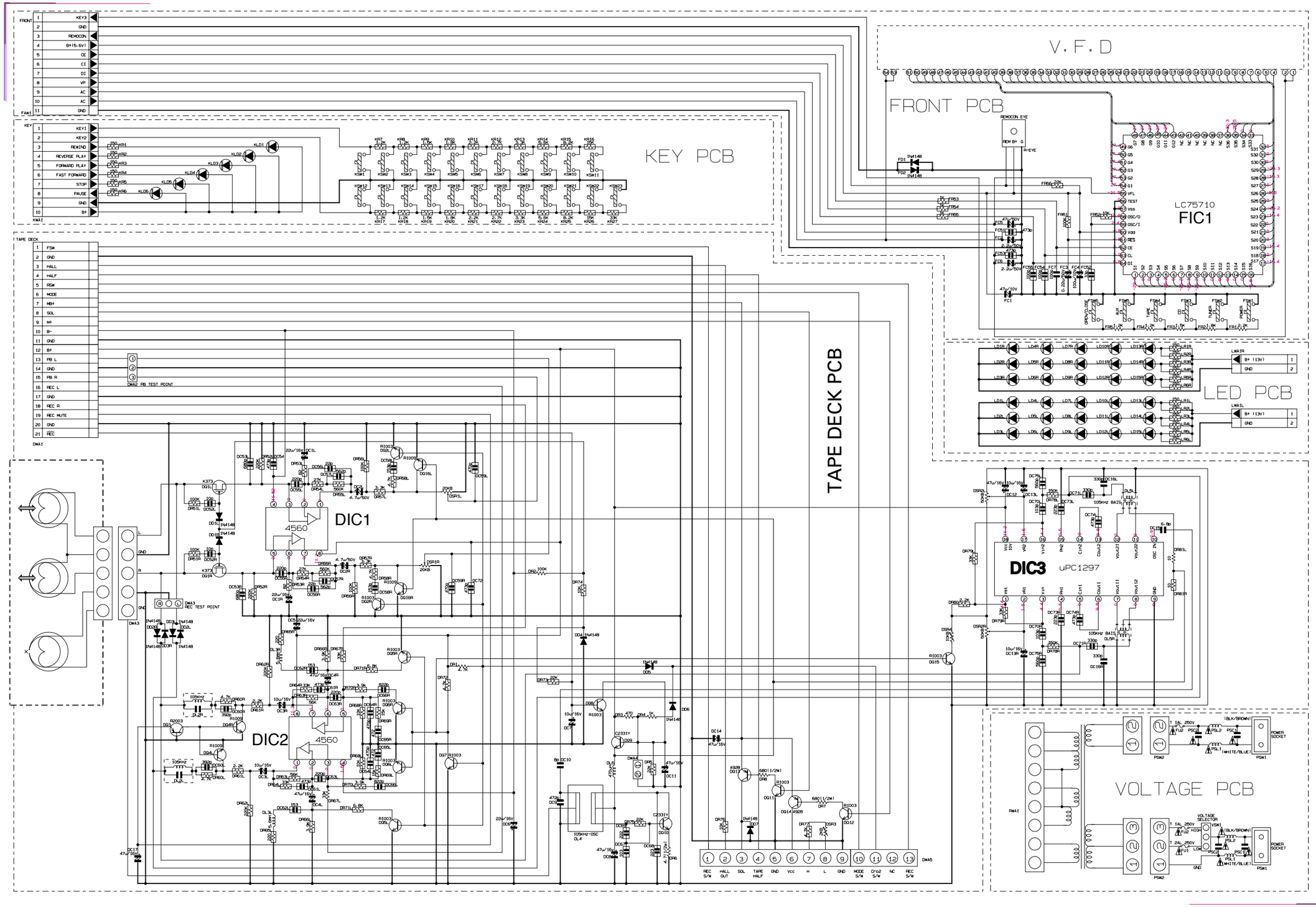
12-1 Main



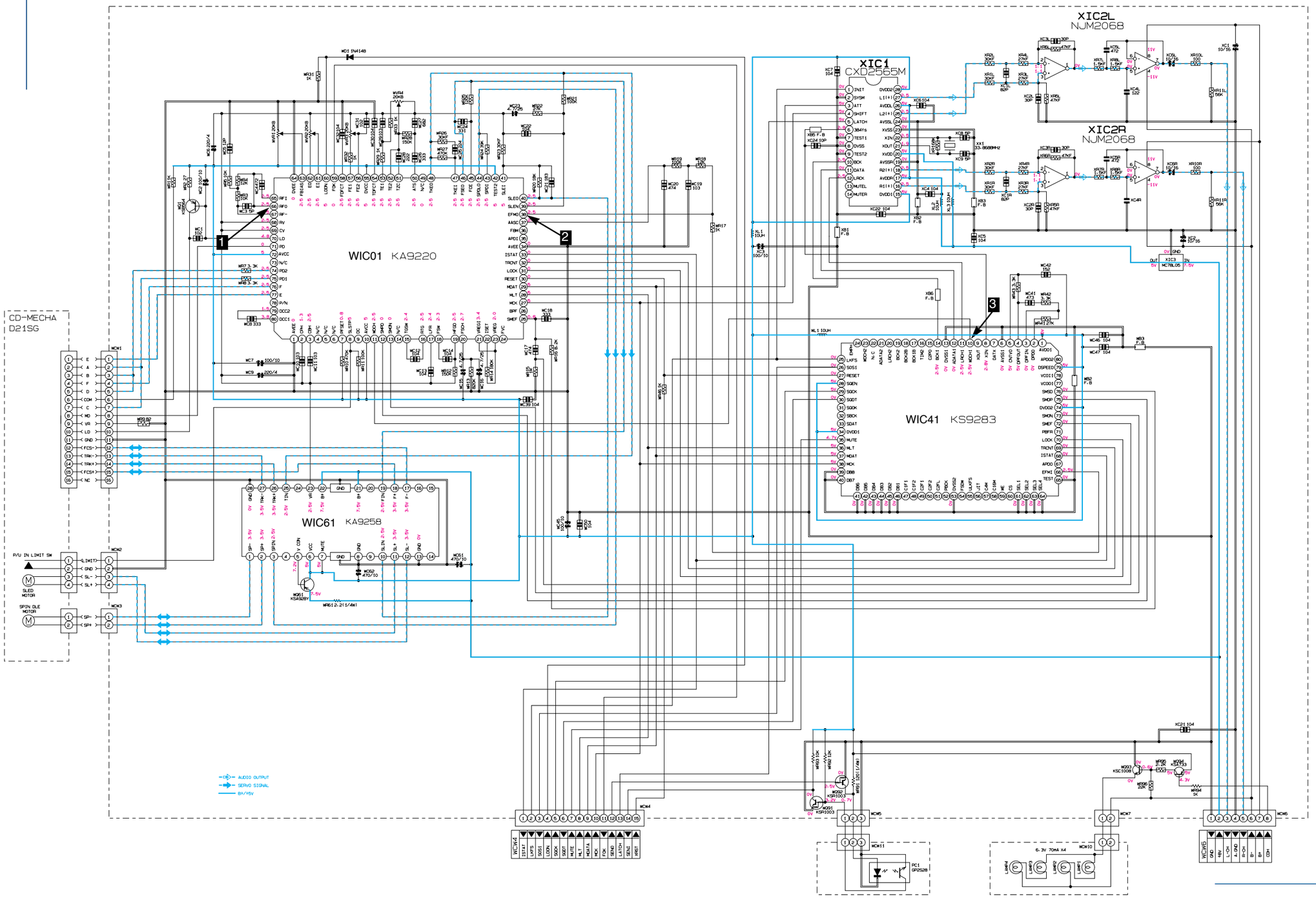
S1000 DIODE-MATRIX TABLE

AREA	BAND	FREQUENCY	IF	STEP	F-REF	OPTION			HOUR	DDD
						UD5	UD4	UD3	UD6	UD7
EUROPE 1	FM	87.5 - 108.0 MHz	10.7M	50k	50k	X	X	X	O	X
	AM	522 - 1611 kHz	450k	9k	9k					
EUROPE 2	FM	87.5 - 108.0 MHz	10.7M	50k	50k	X	X	O	O	X
	MW	522 - 1611 kHz	450k	9k	9k					
	LW	146 - 290 kHz	450k	1k	1k					
EUROPE 3 (OIRT)	FM	65.0 - 74.0 / 87.5 - 108.0 MHz	10.7M	50k	50k	X	O	X	O	X
	AM	522 - 1611 kHz	450k	9k	9k					
KOREA	FM	87.9 - 107.9 MHz	10.7M	100k	50k	X	O	O	X	O
	AM	522 - 1611 kHz	450k	9k	9k					
U.S.A	FM	87.9 - 107.9 MHz	10.7M	100k	50k	O	X	X	X	X
	AM	520 - 1720 kHz	450k	10k	10k					
LATIN AMERICA 1	FM	87.5 - 108.0 MHz	10.7M	100k	50k	O	X	O	X	X
	AM	522 - 1611 kHz	450k	9k	9k					
LATIN AMERICA 2	FM	87.5 - 108.0 MHz	10.7M	100k	50k	O	O	X	X	X
	AM	520 - 1610 kHz	450k	10k	10k					
AUSTLELI A	FM	87.5 - 108.0 MHz	10.7M	100k	50k	O	O	O	O	X
	AM	531 - 1602 kHz	450k	9k	9k					

12-2 Front


V.F.D
FRONT PCB
KEY PCB
TAPE DECK PCB
LED PCB
VOLTAGE PCB
DIC1
DIC2
DIC3
FIC1
LC75710
uPC1297
4560
FRONT
KEY
TAPE DECK
FAN1
KWA1
DWA1
DWA2 PB TEST POINT
DWA3 REC TEST POINT
DWA5
KEY1
KEY2
REWIND
REVERSE PLAY
FORWARD PLAY
FAST FORWARD
STOP
PAUSE
GND
B+
FSW
HALL
HALF
MODE
SOL
PB L
PB R
REC L
REC R
REC MUTE
REC
KEY3
REMOCON
B+15.6V
CE
CI
DI
VP
AC
REMOCON EYE
REM B+
R-EYE
105KHZ
105KHz BAIS
105KHz-OSC
LWA1R
LWA1L
B+ 13V
PWA1
POWER SOCKET
VOLTAGE SELECTOR
REC S/W
HALL OUT
SOL
TAPE HALF
Vcc
MODE S/W
Cr-o2 S/W
NC

12-3 CD


XIC2L
NJM2068
XIC1
CXD2565M
XIC2R
NJM2068
WIC01 KA9220
WIC41 KS9283
WIC61 KA9258
CD-MECHA
D21SG
P/U IN LIMIT SW
SLIED MOTOR
SPIN ELE MOTOR
AUDIO OUTPUT
SERVO SIGNAL
B1/15V
1
2
3